

WEST[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Generate Collection](#)*Slashed
oligonucleotide tags***Search Results - Record(s) 1 through 44 of 44 returned.**☐ 1. Document ID: US 6036920 A

Entry 1 of 44

File: USPT

Mar 14, 2000

US-PAT-NO: 6036920

DOCUMENT-IDENTIFIER: US 6036920 A

TITLE: Microplate thermal shift assay apparatus for ligand development and multi-variable protein chemistry optimization

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pantoliano; Michael W.	Avondale	PA	N/A	N/A
Bone; Roger F.	Bridgewater	NJ	N/A	N/A
Rhind; Alexander W.	Libertyville	IL	N/A	N/A
Salemme; Francis R.	Yardley	PA	N/A	N/A

US-CL-CURRENT: 422/67; 250/458.1, 422/82.08, 436/172, 436/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 2. Document ID: US 6027890 A

Entry 2 of 44

File: USPT

Feb 22, 2000

US-PAT-NO: 6027890

DOCUMENT-IDENTIFIER: US 6027890 A

TITLE: Methods and compositions for enhancing sensitivity in the analysis of biological-based assays

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ness; Jeffrey Van	Seattle	WA	N/A	N/A
Tabone; John C.	Bothell	WA	N/A	N/A
Howbert; J. Jeffry	Bellevue	WA	N/A	N/A
Mulligan; John T.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 435/6; 436/518, 436/536

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 3. Document ID: US 6022715 A

Entry 3 of 44

File: USPT

Feb 8, 2000

US-PAT-NO: 6022715

DOCUMENT-IDENTIFIER: US 6022715 A

TITLE: Method for the specific coupling of the cap of the 5' end of an mRNA fragment and preparation of mRNA and complete cDNA
DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Merenkova; Irena Nicolaevna	Paris	N/A	N/A	FRX
Milne Edwards; Jean-Baptiste Dumas	Paris	N/A	N/A	FRX

US-CL-CURRENT: 435/91.1; 435/6, 530/350, 530/413, 536/23.1, 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 6020141 A

Entry 4 of 44

File: USPT

Feb 1, 2000

US-PAT-NO: 6020141

DOCUMENT-IDENTIFIER: US 6020141 A

TITLE: Microplate thermal shift assay for ligand development and multi-variable protein chemistry optimization
DATE-ISSUED: February 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pantoliano; Michael W.	Avondale	PA	N/A	N/A
Rhind; Alexander W.	Libertyville	IL	N/A	N/A
Salemme; Francis R.	Yardley	PA	N/A	N/A

US-CL-CURRENT: 435/7.1; 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 5. Document ID: US 6013445 A

Entry 5 of 44

File: USPT

Jan 11, 2000

US-PAT-NO: 6013445

DOCUMENT-IDENTIFIER: US 6013445 A

TITLE: Massively parallel signature sequencing by ligation of encoded adaptors
DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albrecht; Glenn	Redwood City	CA	N/A	N/A
Brenner; Sydney	Cambridge	N/A	N/A	GBX
DuBridge; Robert B.	Belmont	CA	N/A	N/A
Lloyd; David H.	Daly City	CA	N/A	N/A
Pallas; Michael C.	San Bruno	CA	N/A	N/A

US-CL-CURRENT: 435/6; 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 6. Document ID: US 6010847 A

Entry 6 of 44

File: USPT

Jan 4, 2000

US-PAT-NO: 6010847

DOCUMENT-IDENTIFIER: US 6010847 A

TITLE: Oligonucleotides that can be used in the amplification and detection of CMV nucleic acid

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sillikens; Peter Theodorus	Gemonde	N/A	N/A	NLX Gerardus Diessen N/A N/A NLX
Timmermans; Eveline Catharina Anna				Clasina

US-CL-CURRENT: 435/5; 435/91.2, 435/91.5, 536/22.1, 536/24.3, 536/24.32, 536/25.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 7. Document ID: US 6007994 A

Entry 7 of 44

File: USPT

Dec 28, 1999

US-PAT-NO: 6007994

DOCUMENT-IDENTIFIER: US 6007994 A

TITLE: Multiparametric fluorescence in situ hybridization

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; David C.	Madison	CT	N/A	N/A
Speicher; Michael	Riemerling	N/A	N/A	DEX
Ballard; Stephen Gwyn	Hamden	CT	N/A	N/A
Wilson; John T.	St. Simon Is.	GA	N/A	N/A

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 8. Document ID: US 5962249 A

Entry 8 of 44

File: USPT

Oct 5, 1999

US-PAT-NO: 5962249

DOCUMENT-IDENTIFIER: US 5962249 A

TITLE: Sized-based marker identification technology

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benton; Bret	Burlingame	CA	N/A	N/A
Bostian; Keith	Menlo Park	CA	N/A	N/A
Schmid; Molly B.	Menlo Park	CA	N/A	N/A
Sun; Dongxu	Cupertino	CA	N/A	N/A
Buyse; Jerry M.	Los Altos	CA	N/A	N/A

US-CL-CURRENT: 435/29; 435/235.1, 435/252.3, 435/254.11, 435/325, 435/419, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 9. Document ID: US 5962228 A

Entry 9 of 44

File: USPT

Oct 5, 1999

US-PAT-NO: 5962228

DOCUMENT-IDENTIFIER: US 5962228 A

TITLE: DNA extension and analysis with rolling primers

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GBX

US-CL-CURRENT: 435/6; 536/23.1, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 10. Document ID: US 5958703 A

Entry 10 of 44

File: USPT

Sep 28, 1999

US-PAT-NO: 5958703

DOCUMENT-IDENTIFIER: US 5958703 A

TITLE: Use of modified tethers in screening compound libraries

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA	N/A	N/A
Heinkel; Gregory L.	San Jose	CA	N/A	N/A
Mattheakis; Larry	Cupertino	CA	N/A	N/A
Schatz; Peter J.	Mountain View	CA	N/A	N/A

US-CL-CURRENT: 435/7.1; 435/21, 435/23, 435/24, 435/5, 435/6, 435/7.2, 435/7.21, 435/7.5, 436/501

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 11. Document ID: US 5948677 A

Entry 11 of 44

File: USPT

Sep 7, 1999

US-PAT-NO: 5948677

DOCUMENT-IDENTIFIER: US 5948677 A

TITLE: Reading frame independent epitope tagging

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jarvik; Jonathan W.	La Jolla	CA	92037	N/A

US-CL-CURRENT: 435/325; 435/252.3, 435/320.1, 435/410, 435/69.1, 536/23.1, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 12. Document ID: US 5942422 A

Entry 12 of 44

File: USPT

Aug 24, 1999

US-PAT-NO: 5942422

DOCUMENT-IDENTIFIER: US 5942422 A

TITLE: Method for generating a directed, recombinant fusion nucleic acid
DATE-ISSUED: August 24, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rothstein; Rodney	Maplewood	NJ	N/A	N/A

US-CL-CURRENT: 435/91.1; 435/252.3, 435/320.1, 435/810, 435/91.2, 435/DIG.47,
536/23.1, 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 13. Document ID: US 5917016 A

Entry 13 of 44

File: USPT

Jun 29, 1999

US-PAT-NO: 5917016

DOCUMENT-IDENTIFIER: US 5917016 A

TITLE: Photolabile compounds and methods for their use
DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holmes; Christopher P.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 530/334; 430/270.1, 430/56, 530/333, 530/345

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 14. Document ID: US 5891637 A

Entry 14 of 44

File: USPT

Apr 6, 1999

US-PAT-NO: 5891637

DOCUMENT-IDENTIFIER: US 5891637 A

TITLE: Construction of full length cDNA libraries
DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruppert; Siegfried J.W.	San Francisco	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/194, 435/252.33, 435/455, 435/465, 435/476, 435/489,
435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 15. Document ID: US 5888737 A

Entry 15 of 44

File: USPT

Mar 30, 1999

US-PAT-NO: 5888737
DOCUMENT-IDENTIFIER: US 5888737 A

TITLE: Adaptor-based sequence analysis
DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DuBridge; Robert B.	Belmont	CA	N/A	N/A
Albrecht; Glenn	Redwood City	CA	N/A	N/A
Brenner; Sydney	Cambridge	N/A	N/A	GBX
Gryaznov; Sergei M.	San Mateo	CA	N/A	N/A
McCurdy; Sarah N.	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/91.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 16. Document ID: US 5863722 A

Entry 16 of 44

File: USPT

Jan 26, 1999

US-PAT-NO: 5863722
DOCUMENT-IDENTIFIER: US 5863722 A

TITLE: Method of sorting polynucleotides
DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 17. Document ID: US 5846719 A

Entry 17 of 44

File: USPT

Dec 8, 1998

US-PAT-NO: 5846719
DOCUMENT-IDENTIFIER: US 5846719 A

TITLE: Oligonucleotide tags for sorting and identification
DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2
Albrecht; Glenn	Redwood City	CA	N/A	N/A
Macevicz; Stephen C.	Cupertino	CA	N/A	N/A

US-CL-CURRENT: 435/6; 536/23.1, 536/24.2, 536/24.3, 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 18. Document ID: US 5817751 A

Entry 18 of 44

File: USPT

Oct 6, 1998

US-PAT-NO: 5817751
DOCUMENT-IDENTIFIER: US 5817751 A

TITLE: Method for synthesis of diketopiperazine and diketomorpholine derivatives
DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Szardenings; Anna Katrin	Santa Clara	CA	N/A	N/A
Campbell; David	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 530/317; 530/334, 544/170

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 19. Document ID: US 5804563 A

Entry 19 of 44

File: USPT

Sep 8, 1998

US-PAT-NO: 5804563
DOCUMENT-IDENTIFIER: US 5804563 A

TITLE: Synthetic receptors, libraries and uses thereof
DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Still; W. Clark	Clinton	NY	N/A	N/A
Li; Ge	Plainsboro	NJ	N/A	N/A

US-CL-CURRENT: 514/26; 514/44, 514/48, 530/300, 530/333, 530/334, 536/1.11,
536/23.1 , 536/25.3, 536/25.32, 536/4.1, 536/5, 552/101, 552/200, 552/208, 564/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 20. Document ID: US 5798035 A

Entry 20 of 44

File: USPT

Aug 25, 1998

US-PAT-NO: 5798035
DOCUMENT-IDENTIFIER: US 5798035 A

TITLE: High throughput solid phase chemical synthesis utilizing thin cylindrical reaction vessels useable for biological assay
DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kirk; Gregory L.	Skillman	NJ	N/A	N/A
Grubbs; Robert H.	South Pasadena	CA	N/A	N/A

US-CL-CURRENT: 205/335; 206/305, 206/459.5, 422/119, 422/129, 422/138, 422/188,
422/196, 422/197, 422/232, 422/233, 422/236, 422/55, 422/56, 422/57, 422/59,
422/63, 422/82, 436/165, 436/169, 436/47, 436/48, 436/49, 436/52, 436/55

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 21. Document ID: US 5789162 A

Entry 21 of 44

File: USPT

Aug 4, 1998

US-PAT-NO: 5789162
DOCUMENT-IDENTIFIER: US 5789162 A

TITLE: Methods of synthesizing diverse collections of oligomers
DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA	N/A	N/A
Barrett; Ronald W.	Sunnyvale	CA	N/A	N/A
Gallop; Mark A.	E. Palo Alto	CA	N/A	N/A

US-CL-CURRENT: 435/6; 436/94, 530/334, 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 22. Document ID: US 5780231 A

Entry 22 of 44

File: USPT

Jul 14, 1998

US-PAT-NO: 5780231
DOCUMENT-IDENTIFIER: US 5780231 A

TITLE: DNA extension and analysis with rolling primers
DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 23. Document ID: US 5776674 A

Entry 23 of 44

File: USPT

Jul 7, 1998

US-PAT-NO: 5776674
DOCUMENT-IDENTIFIER: US 5776674 A

TITLE: Chemical biochemical and biological processing in thin films
DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ulmer; Kevin M.	Cohasset	MA	N/A	N/A

US-CL-CURRENT: 435/6; 356/364, 435/5, 435/7.1, 435/7.2, 435/7.9, 435/91.1,
436/172, 436/518, 436/527, 436/543, 436/547, 530/333, 530/334, 530/388.1,
536/24.3, 536/24.32, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 24. Document ID: US 5770367 A

Entry 24 of 44

File: USPT

Jun 23, 1998

US-PAT-NO: 5770367
DOCUMENT-IDENTIFIER: US 5770367 A

TITLE: Tag reagent and assay method
DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Southern; Edwin	Oxford	N/A	N/A	GBX
Cummins; William Jonathan	Tring	N/A	N/A	GBX

US-CL-CURRENT: 435/6; 536/22.1, 536/23.1, 536/24.3, 536/25.3, 536/25.31, 536/25.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 25. Document ID: US 5770358 A

Entry 25 of 44

File: USPT

Jun 23, 1998

US-PAT-NO: 5770358
DOCUMENT-IDENTIFIER: US 5770358 A

TITLE: Tagged synthetic oligomer libraries
DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA	N/A	N/A
Barrett; Ronald W.	Sunnyvale	CA	N/A	N/A
Gallop; Mark A.	East Palo Alto	CA	N/A	N/A
Needels; Michael C.	Oakland	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/7.1, 436/518, 530/334, 536/25.3, 536/25.31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 26. Document ID: US 5763175 A

Entry 26 of 44

File: USPT

Jun 9, 1998

US-PAT-NO: 5763175
DOCUMENT-IDENTIFIER: US 5763175 A

TITLE: Simultaneous sequencing of tagged polynucleotides
DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 27. Document ID: US 5763167 A

Entry 27 of 44

File: USPT

Jun 9, 1998

US-PAT-NO: 5763167
DOCUMENT-IDENTIFIER: US 5763167 A

TITLE: Applications of fluorescent N-nucleosides and fluorescent structural
analogs of N-nucleosides
DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conrad; Michael J.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/6; 536/24.3, 536/26.13, 536/28.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 28. Document ID: US 5739386 A

Entry 28 of 44

File: USPT

Apr 14, 1998

US-PAT-NO: 5739386
DOCUMENT-IDENTIFIER: US 5739386 A

TITLE: Photolabile compounds and methods for their use
DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holmes; Christopher P.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 562/437; 562/438

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 29. Document ID: US 5728525 A

Entry 29 of 44

File: USPT

Mar 17, 1998

US-PAT-NO: 5728525
DOCUMENT-IDENTIFIER: US 5728525 A

TITLE: Fluorescent universal nucleic acid end label
DATE-ISSUED: March 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conrad; Michael J.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/91.1, 536/23.1, 536/24.3, 536/24.33, 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 30. Document ID: US 5708153 A

Entry 30 of 44

File: USPT

Jan 13, 1998

US-PAT-NO: 5708153
DOCUMENT-IDENTIFIER: US 5708153 A

TITLE: Method of synthesizing diverse collections of tagged compounds
DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA	N/A	N/A
Barrett; Ronald W.	Sunnyvale	CA	N/A	N/A
Gallop; Mark A.	E. Palo Alto	CA	N/A	N/A

US-CL-CURRENT: 536/22.1; 435/4, 435/5, 435/6, 435/810, 530/333, 530/350, 536/23.1,
536/24.1, 536/24.31, 536/24.32, 536/25.3, 536/25.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 31. Document ID: US 5705732 A

Entry 31 of 44

File: USPT

Jan 6, 1998

US-PAT-NO: 5705732
DOCUMENT-IDENTIFIER: US 5705732 A

TITLE: Universal donor cells
DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sims; Peter J.	Mequon	WI	N/A	N/A
Bothwell; Alfred L.M.	Guilford	CT	N/A	N/A
Elliot; Eileen A.	New Haven	CT	N/A	N/A
Flavell; Richard A.	Killingworth	CT	N/A	N/A
Madri; Joseph	North Branford	CT	N/A	N/A
Rollins; Scott	Monroe	CT	N/A	N/A
Bell; Leonard	Woodbridge	CT	N/A	N/A
Squinto; Stephen	Irvington	NY	N/A	N/A

US-CL-CURRENT: 800/17; 536/23.1, 800/14, 800/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 32. Document ID: US 5695934 A

Entry 32 of 44

File: USPT

Dec 9, 1997

US-PAT-NO: 5695934
DOCUMENT-IDENTIFIER: US 5695934 A

TITLE: Massively parallel sequencing of sorted polynucleotides
DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 33. Document ID: US 5691141 A

Entry 33 of 44

File: USPT

Nov 25, 1997

US-PAT-NO: 5691141

DOCUMENT-IDENTIFIER: US 5691141 A

TITLE: DNA sequencing by mass spectrometry

DATE-ISSUED: November 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koster; Hubert	Concord	MA	N/A	N/A

US-CL-CURRENT: 435/6; 435/810, 435/91.1, 436/173, 436/174, 536/24.33, 536/25.3,
536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 34. Document ID: US 5663046 A

Entry 34 of 44

File: USPT

Sep 2, 1997

US-PAT-NO: 5663046

DOCUMENT-IDENTIFIER: US 5663046 A

TITLE: Synthesis of combinatorial libraries

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baldwin; John J.	Gwynedd Valley	PA	N/A	N/A
Horlbeck; Eric G.	Plainsboro	NJ	N/A	N/A

US-CL-CURRENT: 435/6; 435/7.1, 436/501, 436/518, 436/531, 436/533, 530/333,
530/334, 536/18.5, 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 35. Document ID: US 5658736 A

Entry 35 of 44

File: USPT

Aug 19, 1997

US-PAT-NO: 5658736

DOCUMENT-IDENTIFIER: US 5658736 A

TITLE: Oligonucleotide population preparation

DATE-ISSUED: August 19, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Gordon G.	Brookline	MA	N/A	N/A

US-CL-CURRENT: 435/6; 435/91.3, 536/23.1, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 36. Document ID: US 5654413 A

Entry 36 of 44

File: USPT

Aug 5, 1997

US-PAT-NO: 5654413
DOCUMENT-IDENTIFIER: US 5654413 A

TITLE: Compositions for sorting polynucleotides
DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 536/22.1; 435/320.1, 435/6, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 37. Document ID: US 5639603 A

Entry 37 of 44

File: USPT

Jun 17, 1997

US-PAT-NO: 5639603
DOCUMENT-IDENTIFIER: US 5639603 A

TITLE: Synthesizing and screening molecular diversity
DATE-ISSUED: June 17, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dower; William J.	Menlo Park	CA	N/A	N/A
Barrett; Ronald W.	Sunnyvale	CA	N/A	N/A
Gallop; Mark A.	Palo Alto	CA	N/A	N/A
Needels; Michael C.	Oakland	CA	N/A	N/A

US-CL-CURRENT: 435/6; 530/334, 530/335, 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 38. Document ID: US 5635400 A

Entry 38 of 44

File: USPT

Jun 3, 1997

US-PAT-NO: 5635400
DOCUMENT-IDENTIFIER: US 5635400 A

TITLE: Minimally cross-hybridizing sets of oligonucleotide tags
DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/320.1; 435/6, 536/22.1, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 39. Document ID: US 5622699 A

Entry 39 of 44

File: USPT

Apr 22, 1997

US-PAT-NO: 5622699
DOCUMENT-IDENTIFIER: US 5622699 A

TITLE: Method of identifying molecules that home to a selected organ in vivo
DATE-ISSUED: April 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruolahti; Erkki	Rancho Santa Fe	CA	N/A	N/A
Pasqualini; Renata	Solana Beach	CA	N/A	N/A

US-CL-CURRENT: 424/93.6; 424/9.1, 424/93.2, 435/5, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 40. Document ID: US 5604097 A

Entry 40 of 44

File: USPT

Feb 18, 1997

US-PAT-NO: 5604097

DOCUMENT-IDENTIFIER: US 5604097 A

TITLE: Methods for sorting polynucleotides using oligonucleotide tags
DATE-ISSUED: February 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 41. Document ID: US 5549974 A

Entry 41 of 44

File: USPT

Aug 27, 1996

US-PAT-NO: 5549974

DOCUMENT-IDENTIFIER: US 5549974 A

TITLE: Methods for the solid phase synthesis of thiazolidinones, metathiazanones,
and derivatives thereof
DATE-ISSUED: August 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holmes; Christopher P.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 428/403; 428/406, 428/407, 428/411.1, 428/426, 428/457, 544/54,
548/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 42. Document ID: US 5547835 A

Entry 42 of 44

File: USPT

Aug 20, 1996

US-PAT-NO: 5547835
DOCUMENT-IDENTIFIER: US 5547835 A

TITLE: DNA sequencing by mass spectrometry
DATE-ISSUED: August 20, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koster; Hubert	Concord	MA	N/A	N/A

US-CL-CURRENT: 435/6; 435/287.2, 435/288.7, 435/91.1, 436/173, 436/94, 536/25.3,
536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 43. Document ID: US 5149625 A

Entry 43 of 44

File: USPT

Sep 22, 1992

US-PAT-NO: 5149625
DOCUMENT-IDENTIFIER: US 5149625 A

TITLE: Multiplex analysis of DNA
DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Church; George M.	Boston	MA	N/A	N/A
Kieffer-Higgins; Stephen	Dorchester	MA	N/A	N/A

US-CL-CURRENT: 435/6; 435/320.1, 435/489, 435/810, 436/808

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 44. Document ID: US 4942124 A

Entry 44 of 44

File: USPT

Jul 17, 1990

US-PAT-NO: 4942124
DOCUMENT-IDENTIFIER: US 4942124 A

TITLE: Multiplex sequencing
DATE-ISSUED: July 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Church; George M.	Boston	MA	N/A	N/A

US-CL-CURRENT: 435/6; 435/489, 435/803, 436/501

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 1. Document ID: US 6013445 A

Entry 1 of 11

File: USPT

Jan 11, 2000

US-PAT-NO: 6013445

DOCUMENT-IDENTIFIER: US 6013445 A

TITLE: Massively parallel signature sequencing by ligation of encoded adaptors
DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albrecht; Glenn	Redwood City	CA	N/A	N/A
Brenner; Sydney	Cambridge	N/A	N/A	GBX
DuBridge; Robert B.	Belmont	CA	N/A	N/A
Lloyd; David H.	Daly City	CA	N/A	N/A
Pallas; Michael C.	San Bruno	CA	N/A	N/A

US-CL-CURRENT: 435/6; 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 5962228 A

Entry 2 of 11

File: USPT

Oct 5, 1999

US-PAT-NO: 5962228

DOCUMENT-IDENTIFIER: US 5962228 A

TITLE: DNA extension and analysis with rolling primers
DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GBX

US-CL-CURRENT: 435/6; 536/23.1, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5888737 A

Entry 3 of 11

File: USPT

Mar 30, 1999

US-PAT-NO: 5888737
DOCUMENT-IDENTIFIER: US 5888737 A

TITLE: Adaptor-based sequence analysis
DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DuBridge; Robert B.	Belmont	CA	N/A	N/A
Albrecht; Glenn	Redwood City	CA	N/A	N/A
Brenner; Sydney	Cambridge	N/A	N/A	GBX
Gryaznov; Sergei M.	San Mateo	CA	N/A	N/A
McCurdy; Sarah N.	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 435/6; 435/91.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 4. Document ID: US 5863722 A

Entry 4 of 11

File: USPT

Jan 26, 1999

US-PAT-NO: 5863722
DOCUMENT-IDENTIFIER: US 5863722 A

TITLE: Method of sorting polynucleotides
DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 5. Document ID: US 5846719 A

Entry 5 of 11

File: USPT

Dec 8, 1998

US-PAT-NO: 5846719
DOCUMENT-IDENTIFIER: US 5846719 A

TITLE: Oligonucleotide tags for sorting and identification
DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2
Albrecht; Glenn	Redwood City	CA	N/A	N/A
Macevicz; Stephen C.	Cupertino	CA	N/A	N/A

US-CL-CURRENT: 435/6; 536/23.1, 536/24.2, 536/24.3, 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 6. Document ID: US 5780231 A

Entry 6 of 11

File: USPT

Jul 14, 1998

US-PAT-NO: 5780231
DOCUMENT-IDENTIFIER: US 5780231 A

TITLE: DNA extension and analysis with rolling primers
DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 7. Document ID: US 5763175 A

Entry 7 of 11

File: USPT

Jun 9, 1998

US-PAT-NO: 5763175
DOCUMENT-IDENTIFIER: US 5763175 A

TITLE: Simultaneous sequencing of tagged polynucleotides
DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 8. Document ID: US 5695934 A

Entry 8 of 11

File: USPT

Dec 9, 1997

US-PAT-NO: 5695934
DOCUMENT-IDENTIFIER: US 5695934 A

TITLE: Massively parallel sequencing of sorted polynucleotides
DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 9. Document ID: US 5654413 A

Entry 9 of 11

File: USPT

Aug 5, 1997

US-PAT-NO: 5654413
DOCUMENT-IDENTIFIER: US 5654413 A

TITLE: Compositions for sorting polynucleotides
DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 536/22.1; 435/320.1, 435/6, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 10. Document ID: US 5635400 A

Entry 10 of 11

File: USPT

Jun 3, 1997

US-PAT-NO: 5635400
DOCUMENT-IDENTIFIER: US 5635400 A

TITLE: Minimally cross-hybridizing sets of oligonucleotide tags
DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/320.1; 435/6, 536/22.1, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 11. Document ID: US 5604097 A

Entry 11 of 11

File: USPT

Feb 18, 1997

US-PAT-NO: 5604097
DOCUMENT-IDENTIFIER: US 5604097 A

TITLE: Methods for sorting polynucleotides using oligonucleotide tags
DATE-ISSUED: February 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brenner; Sydney	Cambridge	N/A	N/A	GB2

US-CL-CURRENT: 435/6; 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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\$0.37 0.05 DialUnits File1
\$0.37 Estimated cost File1
\$0.05 TYMNET
\$0.42 Estimated cost this search
\$0.42 Estimated total session cost 0.105 DialUnits

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? s oligonucleotide (w) tag

	0	OLIGONUCLEOTIDE
	63	TAG
S1	0	OLIGONUCLEOTIDE (W) TAG

? b 155, 5, 399, 357

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\$0.00 0.098 DialUnits File410
\$0.00 Estimated cost File410
\$0.10 TYMNET
\$0.10 Estimated cost this search
\$0.52 Estimated total session cost 0.203 DialUnits

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67182 OLIGONUCLEOTIDE
12383 TAG
S1 20 OLIGONUCLEOTIDE (W) TAG

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Set	Items	Description
S1	20	OLIGONUCLEOTIDE (W) TAG

? t s1/6/1-20

1/6/1 (Item 1 from file: 155)
09958747 99191089
Defined **oligonucleotide tag** pools and PCR screening in
signature-tagged mutagenesis of essential genes from bacteria.
Mar 1999

1/6/2 (Item 2 from file: 155)

08042525 95045582

Mutational studies on the alpha-sarcin loop of Escherichia coli 23S ribosomal RNA.

Nov 15 1994

1/6/3 (Item 1 from file: 5)

11957720 BIOSIS NO.: 199900203829

Defined **oligonucleotide tag** pools and PCR screening in signature-tagged mutagenesis of essential genes from bacteria.

1999

1/6/4 (Item 2 from file: 5)

11851175 BIOSIS NO.: 199900097284

Method of sorting polynucleotides.

1999

1/6/5 (Item 3 from file: 5)

09636767 BIOSIS NO.: 199598091685

Mutational studies on the alpha-sarcin loop of Escherichia coli 23S ribosomal RNA.

1994

1/6/6 (Item 1 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Defined oligonucleotide tag pools and PCR screening in signature-tagged mutagenesis of essential genes from bacteria

1/6/7 (Item 2 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Massively parallel sequencing of sorted polynucleotides using oligonucleotide tags

1/6/8 (Item 3 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Selecting tag nucleic acids and probe arrays for very large scale immobilized polymer synthesis and hybridization

1/6/9 (Item 4 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Metastasis-inducing DNA of human origin and its diagnostic and therapeutic uses

1/6/10 (Item 5 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

1/6/11 (Item 6 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

oligonucleotide tag for nucleic acid sorting or identification, computer programs, and applications such as large-scale DNA sequence analysis or mRNA fingerprinting

1/6/12 (Item 7 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Massively parallel sequencing of sorted polynucleotides using oligonucleotide tags

1/6/13 (Item 8 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Applications of encoded synthetic libraries in ligand discovery

1/6/14 (Item 1 from file: 357)
0244297 DBA Accession No.: 1999-12444
Analysis of differential gene expression by competitive hybridization to identify and isolate differentially expressed genes, e.g. for drug design - production of differential expression DNA library for analysis by fluorescence-activated cell sorting, useful in drug design, pest control, therapeutics and diagnostics 1999

1/6/15 (Item 2 from file: 357)
0226700 DBA Accession No.: 98-08297
Simultaneous determination of multiple nucleic acid sequences - large-scale DNA sequencing method using **oligonucleotide tag** and polynucleotide conjugate, DNA primer and polymerase chain reaction 1998

1/6/16 (Item 3 from file: 357)
0220905 DBA Accession No.: 98-02502
Methods for determining the nucleotide sequence at an end of a polynucleotide - DNA sequencing using adaptor ligation 1997

1/6/17 (Item 4 from file: 357)
0217472 DBA Accession No.: 97-12593
Sequencing of polynucleotides - RNA sequencing and DNA sequencing using an **oligonucleotide tag** for transferring sequence information to a tag complement on a spatially addressable array 1997

1/6/18 (Item 5 from file: 357)
0211726 DBA Accession No.: 97-06847
Massively parallel signature sequencing - of cDNA library for toxicity determination and RNA fingerprinting 1997

1/6/19 (Item 6 from file: 357)
0196586 DBA Accession No.: 96-07966
Labeling and sorting molecules using oligonucleotide tags - large-scale overlapping fragment automated DNA sequencing method using a microparticle solid adsorbent 1996

1/6/20 (Item 7 from file: 357)
0196582 DBA Accession No.: 96-07962
Molecular tagging system - using **oligonucleotide tag**, for

large-scale DNA sequencing, etc. 1996
? s (minimally(w)cross(w)hybridizing)

0 MIMALLY
454988 CROSS
7754 HYBRIDIZING
S2 0 (MIMALLY(W)CROSS(W)HYBRIDIZING)
? s (minimally(w)cross(w)hybridizing)

21907 MINIMALLY
454988 CROSS
7754 HYBRIDIZING
S3 6 (MINIMALLY(W)CROSS(W)HYBRIDIZING)
? rd

...completed examining records
S4 6 RD (unique items)
? t s4/6/1-20

4/6/1 (Item 1 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A DNA sequencing method for use with complex mixtures using cycles of ligation and cleavage of encoded adaptors

4/6/2 (Item 2 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

4/6/3 (Item 1 from file: 357)
0220905 DBA Accession No.: 98-02502
Methods for determining the nucleotide sequence at an end of a polynucleotide - DNA sequencing using adaptor ligation 1997

4/6/4 (Item 2 from file: 357)
0217472 DBA Accession No.: 97-12593
Sequencing of polynucleotides - RNA sequencing and DNA sequencing using an oligonucleotide tag for transferring sequence information to a tag complement on a spatially addressable array 1997

4/6/5 (Item 3 from file: 357)
0208123 DBA Accession No.: 97-03244
Sorting polynucleotides onto solid supports by attachment to oligonucleotide tags - DNA probe tag hybridization and ligation on microparticle adsorbent, for automated mapping, DNA sequencing and genetic disease diagnosis 1996

4/6/6 (Item 4 from file: 357)
0196582 DBA Accession No.: 96-07962
Molecular tagging system - using oligonucleotide tag, for large-scale DNA sequencing, etc. 1996
? rd s1

...completed examining records
S5 16 RD S1 (unique items)
? t s5/7/1-16

5/7/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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09958747 99191089

Defined **oligonucleotide tag** pools and PCR screening in signature-tagged mutagenesis of essential genes from bacteria.

Lehoux DE; Sanschagrin F; Levesque RC

Faculte de Medecine, Universite Laval, Sainte-Foy, QC, Canada.

Biotechniques (UNITED STATES) Mar 1999, 26 (3) p473-8, 480, ISSN 0736-6205 Journal Code: AN3

Languages: ENGLISH

Document type: TECHNICAL REPORT

We describe a fast and simple method for signature-tagged mutagenesis (STM) using defined oligonucleotides for tag construction into mini-Tn5 and PCR instead of hybridization for rapid screening of bacterial mutants in vivo. A collection of 12 unique 21-mers were synthesized as complementary DNA strands to tag bacterial mutants constructed by insertional mutagenesis using pUTmini-Tn5Km2 plasmids. Tags were tested in a combination of assays by PCR and compared to hybridization for specificity and for large-scale screening. Each defined tag has the same melting temperature, an invariable region to optimize PCRs and a variable region for specific amplification by PCR. A series of "suicide" plasmids carrying mini-Tn5s, each with a specific tag, were transferred into *Pseudomonas aeruginosa*, giving 12 libraries of mutants; groups of 12 mutants were pooled and arrayed into 96-well microplates, representing approximately one-sixth of the *P. aeruginosa* 5.9-Mb genome. This simple STM method can be adapted to any bacterial system and used for genome scanning in various growth conditions.

5/7/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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08042525 95045582

Mutational studies on the alpha-sarcin loop of *Escherichia coli* 23S ribosomal RNA.

Marchant A; Hartley MR

Department of Biological Sciences, University of Warwick, Coventry, England.

Eur J Biochem (GERMANY) Nov 15 1994, 226 (1) p141-7, ISSN 0014-2956 Journal Code: EMZ

Languages: ENGLISH

Document type: JOURNAL ARTICLE

The alpha-sarcin loop, located in domain VI of *Escherichia coli* 23S rRNA, is a universally conserved sequence involved in the binding of elongation factors to the ribosome and is the site of action of ribosome-inactivating proteins. Six mutations were created in this loop with the aim of establishing whether the mutant 23S rRNA could be assembled into functional ribosomes. In order to distinguish between plasmid-derived (mutant) and chromosome-derived (wild-type) 23S rRNAs, an **oligonucleotide tag** sequence was introduced into the plasmid-borne 23S rRNA gene. The tag sequence had no apparent effect on ribosome assembly or function. Two of the bases mutated (at positions A2660 and G2661) have been implicated in the binding of both elongation factor Tu and elongation factor G to the ribosome [Moazed, D., Robertson, J. M. & Noller, H. F. (1988) *Nature* 334, 362-364]. A further two bases (at positions C2658 and G2663) have been proposed to form a Watson-Crick base pair involved in the formation of a tetraloop structure required for ribosome function [Szewczak, A. A., Moore, P. B., Chan, Y. L. & Wool, I. G. (1993) *Proc. Natl Acad. Sci. USA* 90, 9581-9585]. It is inferred that the identity of the bases at positions 2658 and 2663 are of critical importance for ribosome structure and function, and that this function cannot be restored by a second mutation which potentially restores a Watson-Crick base pair, but with reversed position.

Of five single mutants (each mutant containing one of the mutations C2658G, A2660G, G2661A, G2663C and G2664C) and one double mutant (containing both mutations C2658G and G2663C) only the two mutants with the single mutations G2661A and G2664C were incorporated into ribosomes at a level comparable to that of 23S rRNA expressed from a wild-type plasmid. However, the G2664C mutation resulted in a decrease in growth rate and a gradual loss of viability. rRNAs containing the G2663C single mutation and the C2658G and G2663C double mutation showed reduced incorporation into 50S subunits and these did not enter into ribosome couples.

5/7/3 (Item 1 from file: 5)
DIALOG(R)File 5:BIOSIS Previews(R)
(c) 2000 BIOSIS. All rts. reserv.

11851175 BIOSIS NO.: 199900097284
Method of sorting polynucleotides.
AUTHOR: Brenner S
AUTHOR ADDRESS: Cambridge, England**UK
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1218 (4):p3079 Jan. 26, 1999
ISSN: 0098-1133
RECORD TYPE: Citation
LANGUAGE: English

5/7/4 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

128058277 CA: 128(6)58277y PATENT
Massively parallel sequencing of sorted polynucleotides using
oligonucleotide tags
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: United States ; US 5695934 A DATE: 19971209
APPLICATION: US 359295 (19941219) *US 322348 (19941013)
PAGES: 26 pp. Cont.-in-part of U.S. Ser. No. 322,348, abandoned. CODEN:
USXXAM LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C07H-021/04B
SECTION:
CA203001 Biochemical Genetics
CA209XXX Biochemical Methods
IDENTIFIERS: massive parallel DNA sequencing oligonucleotide tag
DESCRIPTORS:
Peptide nucleic acids...
antisense monomers; massively parallel sequencing of sorted
polynucleotides using oligonucleotide tags
DNA sequence analysis... Oligodeoxyribonucleotides...
massively parallel sequencing of sorted polynucleotides using
oligonucleotide tags
Nucleotides, uses...
phosphoramidates, antisense monomers; massively parallel sequencing of
sorted polynucleotides using oligonucleotide tags

5/7/5 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

127315569 CA: 127(23)315569n PATENT
Selecting tag nucleic acids and probe arrays for very large scale
immobilized polymer synthesis and hybridization
INVENTOR(AUTHOR): Morris, MacDonald S.; Schoemaker, Daniel D.; Davis,
Ronald W.; Mittmann, Michael P.

LOCATION: USA
ASSIGNEE: Affymetrix Inc.
PATENT: European Pat. Appl. ; EP 799897 A1 DATE: 19971008
APPLICATION: EP 97302313 (19970403) *US 626285 (19960404)
PAGES: 46 pp. CODEN: EPXXDW LANGUAGE: English CLASS: C12Q-001/68A;
C12N-005/10B DESIGNATED COUNTRIES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT;
LI; LU; NL; SE; MC; PT; IE; FI
SECTION:
CA203001 Biochemical Genetics
CA209XXX Biochemical Methods
IDENTIFIERS: VLSIPS tag selection criteria algorithm, DNA chip tag probe
selection
DESCRIPTORS:
Computer program...
for design of oligonucleotide tag families; selecting tag nucleic acids
and probe arrays for very large scale immobilized polymer synthesis and
hybridization
Oligonucleotides...
hybridization tags, design of; selecting tag nucleic acids and probe
arrays for very large scale immobilized polymer synthesis and
hybridization
Library(nucleic acid)...
ordered; selecting tag nucleic acids and probe arrays for very large
scale immobilized polymer synthesis and hybridization
Nucleic acid hybridization... Probes(nucleic acid)...
selecting tag nucleic acids and probe arrays for very large scale
immobilized polymer synthesis and hybridization

5/7/6 (Item 3 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

127172244 CA: 127(13)172244q PATENT
Metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
INVENTOR(AUTHOR): Rudland, Philip Spencer; Barraclough, Barry Roger
LOCATION: UK,
ASSIGNEE: University of Liverpool; Rudland, Philip Spencer; Barraclough,
Barry Roger
PATENT: PCT International ; WO 9725443 A1 DATE: 19970717
APPLICATION: WO 97GB74 (19970110) *GB 96470 (19960110)
PAGES: 40 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A;
C12N-015/11B DESIGNATED COUNTRIES: JP; US DESIGNATED REGIONAL: AT; BE; CH
; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE
SECTION:
CA203003 Biochemical Genetics
CA214XXX Mammalian Pathological Biochemistry
IDENTIFIERS: metastasis inducing DNA human, sequence metastasis inducing
DNA human, diagnosis metastasis inducing DNA human, therapy metastasis
inducing DNA human
DESCRIPTORS:
Transcription factors...
CTCF; metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
Transcription factors...
HlPlb; metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
Antitumor agents... Breast tumors... Cancer diagnosis... Probes(nucleic
acid)... Susceptibility(genetic)... Transformation(neoplastic)...
metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
DNA...
metastasis-inducing; metastasis-inducing DNA of human origin and its
diagnostic and therapeutic uses

Transcription factors
NF-IL6; metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
DNA sequences...
of metastasis-inducing DNA of human
Animal cell line...
Rama 37; metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
Transcription factors...
TCF-1; metastasis-inducing DNA of human origin and its diagnostic and
therapeutic uses
Osteopontin...
use of osteopontin gene as marker for metastasis-inducing
transformants; metastasis-inducing DNA of human origin and its
diagnostic and therapeutic uses
CAS REGISTRY NUMBERS:
193907-49-2 193907-50-5 193907-51-6 193907-52-7 193907-53-8
193907-54-9 nucleotide sequence; metastasis-inducing DNA of human
origin and its diagnostic and therapeutic uses
194047-45-5 oligonucleotide tag; metastasis-inducing DNA of human origin
and its diagnostic and therapeutic uses

5/7/7 (Item 4 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

126196092 CA: 126(15)196092u PATENT
Methods for sorting polynucleotides using minimally cross-hybridizing
oligonucleotide tags
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Spectragen, Inc.
PATENT: United States ; US 5604097 A DATE: 19970218
APPLICATION: US 358810 (19941219) *US 322348 (19941013)
PAGES: 26 pp. Cont.-in-part of U.S. Ser. No. 322,348, abandoned. CODEN:
USXXAM LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C12N-015/10B;
C07H-021/00B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: polynucleotide sorting oligonucleotide tag, sequencing DNA
sorting oligonucleotide tag, mRNA identification sorting oligonucleotide
tag
DESCRIPTORS:
Magnetic materials...
beads, microparticle solid supports; methods for sorting
polynucleotides using minimally cross-hybridizing oligonucleotide tags
mRNA...
identification; methods for sorting polynucleotides using minimally
cross-hybridizing oligonucleotide tags
DNA sequence analysis... DNA... Polynucleotides... RNA...
methods for sorting polynucleotides using minimally cross-hybridizing
oligonucleotide tags
Glass, biological studies... Plastics, biological studies...
microparticle solid supports; methods for sorting polynucleotides using
minimally cross-hybridizing oligonucleotide tags
Microparticles...
solid supports; methods for sorting polynucleotides using minimally
cross-hybridizing oligonucleotide tags
Oligonucleotides...
tags; methods for sorting polynucleotides using minimally
cross-hybridizing oligonucleotide tags
CAS REGISTRY NUMBERS:
7440-21-3 biological studies, microparticle solid supports; methods for
sorting polynucleotides using minimally cross-hybridizing

oligonucleotide tags on solid supports; methods for sorting
9003-53-6 microparticles; methods for sorting
polynucleotides using minimally cross-hybridizing oligonucleotide tags

5/7/8 (Item 5 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

126127866 CA: 126(10)127866n PATENT
oligonucleotide tags for nucleic acid sorting or identification, computer
programs, and applications such as large-scale DNA sequence analysis or
mRNA fingerprinting
INVENTOR(AUTHOR): Brenner, Sydney; Albrecht, Glenn
LOCATION: USA
ASSIGNEE: Spectragen, Inc.
PATENT: PCT International ; WO 9641011 A1 DATE: 19961219
APPLICATION: WO 96US9513 (19960606) *US 478238 (19950607) *WO 95US12791
(19951012)
PAGES: 78 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A;
C12N-015/10B; C12N-015/63B; C07H-021/00B DESIGNATED COUNTRIES: AU; BR; CA;
CN; CZ; EE; FI; HU; JP; KR; LT; LV; NO; NZ; PL; RU; SG; SI; SK
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU;
MC; NL; PT; SE
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: nucleic acid analysis oligonucleotide tag repertoire,
computer automated polynucleotide analysis oligonucleotide tag
DESCRIPTORS:
Apparatus...
automated, large-scale parallel operations; oligonucleotide tags for
nucleic acid sorting or identification, computer programs, and
applications such as large-scale DNA sequence anal. or mRNA fingerpr
Oligonucleotides...
homo-pyrimidine-homo-purine duplexes; oligonucleotide tags for nucleic
acid sorting or identification, computer programs, and applications
such as large-scale DNA sequence anal. or mRNA fingerprinting
Oligonucleotides...
labeled, tags; oligonucleotide tags for nucleic acid sorting or
identification, computer programs, and applications such as large-scale
DNA sequence anal. or mRNA fingerprinting
DNA fingerprinting... DNA sequence analysis...
large-scale parallel operations; oligonucleotide tags for nucleic acid
sorting or identification, computer programs, and applications such as
large-scale DNA sequence anal. or mRNA fingerprinting
cDNA... Computer program... Nucleic acid hybridization... Nucleic acids...
PCR(polymerase chain reaction)...
oligonucleotide tags for nucleic acid sorting or identification,
computer programs, and applications such as large-scale DNA sequence
anal. or mRNA fingerprinting
Oligonucleotides...
primers; oligonucleotide tags for nucleic acid sorting or
identification, computer programs, and applications such as large-scale
DNA sequence anal. or mRNA fingerprinting
Immobilization(molecular)... Microparticles...
sorting onto solid support; oligonucleotide tags for nucleic acid
sorting or identification, computer programs, and applications such as
large-scale DNA sequence anal. or mRNA fingerprinting
Oligonucleotides...
tags; oligonucleotide tags for nucleic acid sorting or identification,
computer programs, and applications such as large-scale DNA sequence
anal. or mRNA fingerprinting
CAS REGISTRY NUMBERS:
58-85-5D oligonucleotide derivs., tags; oligonucleotide tags for nucleic
acid sorting or identification, computer programs, and applications

such as large-scale DNA sequence anal. or mRNA fingerprinting

5/7/9 (Item 6 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

123314496 CA: 123(23)314496s JOURNAL
Applications of encoded synthetic libraries in ligand discovery
AUTHOR(S): Jones, David G.
LOCATION: Affymax Research Institute, Palo Alto, CA, 94304, USA
JOURNAL: Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) DATE: 1994
VOLUME: 35 NUMBER: 2 PAGES: 981-2 CODEN: ACPPAY ISSN: 0032-3934
LANGUAGE: English
SECTION:
CA234003 Amino Acids, Peptides, and Proteins
CA233XXX Carbohydrates
IDENTIFIERS: oligonucleotide tag combinatorial peptide library,
Merrifield synthesis peptide oligonucleotide tag
DESCRIPTORS:
Peptides, preparation...
mixts.; use of oligonucleotide tags in prepn. of combinatorial peptide
libraries
Combinatorial library...
peptide; use of oligonucleotide tags in prepn. of combinatorial peptide
libraries
Merrifield synthesis... Nucleotides, oligo-, preparation... Polymerase chain
reaction...
use of oligonucleotide tags in prepn. of combinatorial peptide
libraries
CAS REGISTRY NUMBERS:
166260-88-4DP 166260-89-5DP 166260-90-8DP 166260-91-9DP 166260-93-1DP
166260-94-2DP 166260-96-4DP 166260-99-7DP 166261-02-5DP
166261-05-8DP 169892-92-6DP 169892-93-7DP 169892-94-8DP
169892-95-9DP 169892-96-0DP 169892-97-1DP 169892-98-2DP
169892-99-3DP resin-bound, use of oligonucleotide tags in prepn. of
combinatorial peptide libraries

5/7/10 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0244297 DBA Accession No.: 1999-12444 PATENT
Analysis of differential gene expression by competitive hybridization to
identify and isolate differentially expressed genes, e.g. for drug
design - production of differential expression DNA library for analysis
by fluorescence-activated cell sorting, useful in drug design, pest
control, therapeutics and diagnostics
AUTHOR: Albrecht G; Brenner S; Dubridge R
CORPORATE SOURCE: Hayward, CA, USA.
PATENT ASSIGNEE: Lynx-Ther. 1999
PATENT NUMBER: WO 9935293 PATENT DATE: 19990715 WPI ACCESSION NO.:
1999-444205 (1937)
PRIORITY APPLIC. NO.: US 130446 APPLIC. DATE: 19980806
NATIONAL APPLIC. NO.: WO 99US666 APPLIC. DATE: 19990108
LANGUAGE: English
ABSTRACT: A method of differential gene expression is claimed which
comprises competitive hybridization of polynucleotide (I) populations
of expressed genes from two different cell or tissue sources, with a
reference population of sequences attached to separate solid phase
supports in clonal subpopulations. Each (I) carries a light-generating
label, a different one for each source. Duplexes between the expressed
gene and reference population are formed at ratios directly
proportional to the relative expression of the relevant gene in the two

sources. Also claimed are: methods for determining the relative abundance's of the products; a mixture of micro particles that carry many identical ss nucleic acids comprising an **oligonucleotide tag** attached to (I) from an mRNA of at least one cell or tissue source (useful for producing a differential expression DNA library which may be manipulated by fluorescence-activated cell sorting). The method is used for identifying and isolating differentially expressed genes, particularly those expressed rarely. It is useful in e.g. pest control, therapeutics, drug design, etc. (107pp)

5/7/11 (Item 2 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0226700 DBA Accession No.: 98-08297 PATENT
Simultaneous determination of multiple nucleic acid sequences - large-scale DNA sequencing method using **oligonucleotide tag** and polynucleotide conjugate, DNA primer and polymerase chain reaction

AUTHOR: Brenner S

CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1998

PATENT NUMBER: US 5763175 PATENT DATE: 980609 WPI ACCESSION NO.:
98-347308 (9830)

PRIORITY APPLIC. NO.: US 560313 APPLIC. DATE: 951117

NATIONAL APPLIC. NO.: US 560313 APPLIC. DATE: 951117

LANGUAGE: English

ABSTRACT: A method for simultaneously determining multiple nucleic acid sequences is new and involves: attaching an oligonucleotide (oligo) tag from a repertoire of tags to each polynucleotide (PN) of the population to form tag-PN conjugates such that different PNs have different oligo tags attached; selectively amplifying tag-PN conjugates with primers whose 3' ends form perfectly matched duplexes with one or more terminal nucleotides of PNs in the population; labeling each tag of the selectively amplified tag-PN conjugates according to the identity of the one or more terminal nucleotides of the associated PN; cleaving the tags from the selectively amplified tag-PN conjugates; and sorting the labeled tags onto a spatially addressable array of tag complements for detection of the labeled tags and identification of the one or more nucleotides of each PN. The method further involves: cleaving the identified nucleotides from the PNs; and repeating the later steps. The amplifying steps involve polymerase chain reaction. The method may be used for large-scale sequencing. (20pp)

5/7/12 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0220905 DBA Accession No.: 98-02502 PATENT
Methods for determining the nucleotide sequence at an end of a polynucleotide - DNA sequencing using adaptor ligation

AUTHOR: Albrecht G; Brenner S; Lloyd D H; Dubridge R B; Pallas M C

CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1997

PATENT NUMBER: WO 9746704 PATENT DATE: 971211 WPI ACCESSION NO.:
98-042210 (9804)

PRIORITY APPLIC. NO.: US 689587 APPLIC. DATE: 960812

NATIONAL APPLIC. NO.: WO 97US9472 APPLIC. DATE: 970602

LANGUAGE: English

ABSTRACT: A new method for determining the sequence at an end of a polynucleotide (PNT) involves ligating 1 or more encoded adaptors to an end of the PNTs, where each encoded adaptor has an **oligonucleotide tag** (OT) selected from a minimally cross-hybridizing set of oligonucleotides and a protruding strand

complementary to part of a strand of the PNT; and identifying 1 or more nucleotides in one of the parts of the strand of the PNT by hybridizing a OT complement specifically to each OT of the encoded adaptors. Also claimed are: the adaptors; and a method for determining the nucleotide sequences of multiple PNTs involving attaching an OT from a repertoire of OTs to each PNT in a population of PNTs such that each OT is selected from a 1st minimally cross-hybridizing set, sampling the population of PNTs to form a sample of PNTs where each has a different 1st OT, sorting the PNTs of the sample by hybridizing the 1st OTs with their respective complements, ligating encoded adaptors to the ends of the PNTs in the sample, and identifying multiple nucleotides in the protruding strands. (82pp)

5/7/13 (Item 4 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0217472 DBA Accession No.: 97-12593 PATENT
Sequencing of polynucleotides - RNA sequencing and DNA sequencing using an **oligonucleotide tag** for transferring sequence information to a tag complement on a spatially addressable array

AUTHOR: Brenner S

CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1997

PATENT NUMBER: WO 9732999 PATENT DATE: 970912 WPI ACCESSION NO.:
97-470552 (9743)

PRIORITY APPLIC. NO.: US 611155 APPLIC. DATE: 960305

NATIONAL APPLIC. NO.: WO 96US18708 APPLIC. DATE: 961119

LANGUAGE: English

ABSTRACT: A new method for simultaneously identifying 1 or more terminal nucleotides of polynucleotides (PNs) involves: attaching an **oligonucleotide tag** (OT) from a repertoire of tags to each PN of the population to form tag-PN conjugates such that all different PNs have different OTs attached, where the OTs are selected from the same minimally cross-hybridizing set; providing a label for each OT, where the label identifies 1 or more terminal nucleotides of the PN to which an OT is conjugated; transferring the OTs or copies from the OT-PN conjugates to a spatially addressable array of OTs complements so that the OTs or copies hybridize specifically to their respective OT complements; and detecting the labels of the OTs or copies on the spatially addressable array for the identification of 1 or more terminal nucleotides of the PNs in the population. Also claimed are simultaneous sequencing of a PN population which involves using OTs, 2 DNA primers and the polymerase chain reaction. The methods can sort and sequence many PNs simultaneously and can analyze gene expression in normal and diseased tissues and cells. (84pp)

5/7/14 (Item 5 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
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0211726 DBA Accession No.: 97-06847 PATENT
Massively parallel signature sequencing - of cDNA library for toxicity determination and RNA fingerprinting

AUTHOR: Martin D W

CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1997

PATENT NUMBER: WO 9713877 PATENT DATE: 970417 WPI ACCESSION NO.:
97-235911 (9721)

PRIORITY APPLIC. NO.: WO 96US09513 APPLIC. DATE: 960606

NATIONAL APPLIC. NO.: WO 96US16342 APPLIC. DATE: 961011

LANGUAGE: English

ABSTRACT: A new method of determining the toxicity of a compound involves

administering the compound to a test organism (preferably a mammalian hepatocyte culture or an animal e.g. rat, mouse, hamster and rabbit), extracting a population of mRNA molecules from one or more tissues, and forming a population of cDNA molecules with an ss **oligonucleotide tag** attached from each set of mRNA molecules. Each population of cDNA molecules is separately sampled, so that substantially all different cDNA molecules within a separate population have different tags attached. They are then sorted onto solid phase supports (preferably microparticles). The nucleotide sequence of a portion of each of the sorted cDNA is determined to form a frequency distribution of expressed genes for each of the tissues, and this is then correlated with the toxicity of the compound. The method can be used to test the toxicity of a compound, or to identify genes which are differentially expressed in a selected tissue of a test animal after treatment with a compound. It may also be used to fingerprint mRNA populations. (63pp)

5/7/15 (Item 6 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0196586 DBA Accession No.: 96-07966 PATENT
Labeling and sorting molecules using oligonucleotide tags - large-scale overlapping fragment automated DNA sequencing method using a microparticle solid adsorbent
AUTHOR: Brenner S
CORPORATE SOURCE: Hayward, CA, USA.
PATENT ASSIGNEE: Lynx-Ther. 1996
PATENT NUMBER: WO 9612039 PATENT DATE: 960425 WPI ACCESSION NO.: 96-222023 (9622)
PRIORITY APPLIC. NO.: US 359295 APPLIC. DATE: 941219
NATIONAL APPLIC. NO.: WO 95US12678 APPLIC. DATE: 951012
LANGUAGE: English
ABSTRACT: A new DNA sequencing method involves: generation of randomly overlapping fragments covering a target DNA (1-50 kb); attaching an ss **oligonucleotide tag** (10-20 nucleotides with 3- to 6-nucleotide subunits showing minimal cross-hybridization) from a repertoire to each fragment, so that similar fragments have the same tag and different fragments have different tags; sorting the fragments by specific hybridization of tags with complementary sequences (e.g. oligonucleotide clamps) attached to an adsorbent (e.g. microparticles at a density of 1,000-100,000/sq cm on a planar substrate); determining the sequence of a portion (12-50 or 12-25 nucleotides) of each fragment by single base sequencing; and collating the sequences. The tag may be a peptide nucleic acid or a 3'-N-5'P phosphoramidate oligonucleotide analog. A cDNA library may be classified by this method. The method allows many thousands of fragments of a target DNA to be sorted on a solid-phase adsorbent and sequenced simultaneously. The method may be automated and used in large-scale parallel DNA sequencing projects at reduced cost. (71pp)

5/7/16 (Item 7 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0196582 DBA Accession No.: 96-07962 PATENT
Molecular tagging system - using **oligonucleotide tag**, for large-scale DNA sequencing, etc.
AUTHOR: Brenner S
CORPORATE SOURCE: Hayward, CA, USA.
PATENT ASSIGNEE: Lynx-Ther. 1996
PATENT NUMBER: WO 9612014 PATENT DATE: 960425 WPI ACCESSION NO.: 96-222001 (9622)
PRIORITY APPLIC. NO.: US 358810 APPLIC. DATE: 941219

LANGUAGE: English

ABSTRACT: A method is claimed of tracking, identifying and/or sorting classes or subpopulations of molecules using oligonucleotide tags. Each **oligonucleotide tag** consists of various 3-6 nucleotide subunits selected from a minimally cross-hybridizing set. A subunit of a minimally cross-hybridizing set forms a duplex or a triplex having at least 2 mismatches with the complement of any other subunit of the same set. The number of oligonucleotide tags available depends on the number of subunits per tag and on the length of the subunit. The oligonucleotide tags can be used for sorting polynucleotides by specifically hybridizing tags attached to the polynucleotides to their complements on solid phase supports. This provides a readily automated system for manipulating and sorting polynucleotides, particularly useful in large-scale parallel operations, such as large-scale DNA sequencing, mRNA fingerprinting, etc., where many target polynucleotides or many segments of a single target polynucleotide are sequenced simultaneously. (61pp)

? ds

Set	Items	Description
S1	20	OLIGONUCLEOTIDE (W) TAG
S2	0	(MIMALLY (W) CROSS (W) HYBRIDIZING)
S3	6	(MINIMALLY (W) CROSS (W) HYBRIDIZING)
S4	6	RD (unique items)
S5	16	RD S1 (unique items)

? t s4/7/1-6

4/7/1 (Item 1 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2000 American Chemical Society. All rts. reserv.

128071623 CA: 128(7)71623c PATENT

A DNA sequencing method for use with complex mixtures using cycles of ligation and cleavage of encoded adaptors

INVENTOR(AUTHOR): Albrecht, Glenn; Brenner, Sydney; Lloyd, David H.; Dubridge, Robert B.; Pallas, Michael C.

LOCATION: USA

ASSIGNEE: Lynx Therapeutics, Inc.

PATENT: PCT International ; WO 9746704 A1 DATE: 19971211

APPLICATION: WO 97US9472 (19970602) *US 659453 (19960606) *US 689587 (19960812)

PAGES: 81 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A

DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; GH; HU; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TR; TT; UA; UG; UZ; VN; YU; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; KE; LS; MW; SD; SZ; UG; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

SECTION:

CA203001 Biochemical Genetics

CA209XXX Biochemical Methods

IDENTIFIERS: DNA sequencing encoded adaptor ligation

DESCRIPTORS:

Probes(nucleic acid)...

adaptor, for use in DNA sequencing; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

Oligonucleotides...

adaptors; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

mRNA...

characterization of populations of; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

DNA sequence analysis... Nucleic acid hybridization...

DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

Computer program...

for generation of minimally cross-hybridizing sets of adaptor probes;

DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

CAS REGISTRY NUMBERS:

9015-85-4 DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

9075-08-5 type IIs; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

4/7/2 (Item 2 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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126196092 CA: 126(15)196092u PATENT

Methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

INVENTOR(AUTHOR): Brenner, Sydney

LOCATION: USA

ASSIGNEE: Spectragen, Inc.

PATENT: United States ; US 5604097 A DATE: 19970218

APPLICATION: US 358810 (19941219) *US 322348 (19941013)

PAGES: 26 pp. Cont.-in-part of U.S. Ser. No. 322,348, abandoned. CODEN: USXXAM LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C12N-015/10B; C07H-021/00B

SECTION:

CA203001 Biochemical Genetics

IDENTIFIERS: polynucleotide sorting oligonucleotide tag, sequencing DNA sorting oligonucleotide tag, mRNA identification sorting oligonucleotide tag

DESCRIPTORS:

Magnetic materials...

beads, microparticle solid supports; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

mRNA...

identification; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

DNA sequence analysis... DNA... Polynucleotides... RNA...

methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

Glass, biological studies... Plastics, biological studies...

microparticle solid supports; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

Microparticles...

solid supports; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

Oligonucleotides...

tags; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

CAS REGISTRY NUMBERS:

7440-21-3 biological studies, microparticle solid supports; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

9003-53-6 microparticle solid supports; methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

4/7/3 (Item 1 from file: 357)

0220905 DBA Accession No.: 98-02502 PATENT

Methods for determining the nucleotide sequence at an end of a
polynucleotide - DNA sequencing using adaptor ligation

AUTHOR: Albrecht G; Brenner S; Lloyd D H; Dubridge R B; Pallas M C
CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1997

PATENT NUMBER: WO 9746704 PATENT DATE: 971211 WPI ACCESSION NO.:
98-042210 (9804)

PRIORITY APPLIC. NO.: US 689587 APPLIC. DATE: 960812

NATIONAL APPLIC. NO.: WO 97US9472 APPLIC. DATE: 970602

LANGUAGE: English

ABSTRACT: A new method for determining the sequence at an end of a
polynucleotide (PNT) involves ligating 1 or more encoded adaptors to an
end of the PNTs, where each encoded adaptor has an oligonucleotide tag
(OT) selected from a **minimally cross-hybridizing** set
of oligonucleotides and a protruding strand complementary to part of a
strand of the PNT; and identifying 1 or more nucleotides in each of the
parts of the strand of the PNT by hybridizing a OT complement
specifically to each OT of the encoded adaptors. Also claimed are: the
adaptors; and a method for determining the nucleotide sequences of
multiple PNTs involving attaching an OT from a repertoire of OTs to
each PNT in a population of PNTs such that each OT is selected from a
1st **minimally cross-hybridizing** set, sampling the
population of PNTs to form a sample of PNTs where each has a different
1st OT, sorting the PNTs of the sample by hybridizing the 1st OTs with
their respective complements, ligating encoded adaptors to the ends of
the PNTs in the sample, and identifying multiple nucleotides in the
protruding strands. (82pp)

4/7/4 (Item 2 from file: 357)

0217472 DBA Accession No.: 97-12593 PATENT

Sequencing of polynucleotides - RNA sequencing and DNA sequencing using an
oligonucleotide tag for transferring sequence information to a tag
complement on a spatially addressable array

AUTHOR: Brenner S

CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1997

PATENT NUMBER: WO 9732999 PATENT DATE: 970912 WPI ACCESSION NO.:
97-470552 (9743)

PRIORITY APPLIC. NO.: US 611155 APPLIC. DATE: 960305

NATIONAL APPLIC. NO.: WO 96US18708 APPLIC. DATE: 961119

LANGUAGE: English

ABSTRACT: A new method for simultaneously identifying 1 or more terminal
nucleotides of polynucleotides (PNs) involves: attaching an
oligonucleotide tag (OT) from a repertoire of tags to each PN of the
population to form tag-PN conjugates such that all different PNs have
different OTs attached, where the OTs are selected from the same
minimally cross-hybridizing set; providing a label
for each OT, where the label identifies 1 or more terminal nucleotides
of the PN to which an OT is conjugated; transferring the OTs pr copies
from the OT-PN conjugates to a spatially addressable array of OTs
complements so that the OTs or copies hybridize specifically to their
respective OT complements; and detecting the labels of the OTs or
copies on the spatially addressable array for the identification of 1
or more terminal nucleotides of the PNs in the population. Also claimed
are simultaneous sequencing of a PN population which involves using
OTs, 2 DNA primers and the polymerase chain reaction. The methods can
sort and sequence many PNs simultaneously and can analyze gene

4/7/5 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
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0208123 DBA Accession No.: 97-03244 PATENT
Sorting polynucleotides onto solid supports by attachment to
oligonucleotide tags - DNA probe tag hybridization and ligation on
microparticle adsorbent, for automated mapping, DNA sequencing and
genetic disease diagnosis

AUTHOR: Brenner S; Albrecht G
CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Spectragen 1996

PATENT NUMBER: WO 9641011 PATENT DATE: 961219 WPI ACCESSION NO.:
97-099943 (9709)

PRIORITY APPLIC. NO.: WO 95US12791 APPLIC. DATE: 951012

NATIONAL APPLIC. NO.: WO 96US9513 APPLIC. DATE: 960606

LANGUAGE: English

ABSTRACT: A new method for DNA or mRNA fragment sorting on a solid
adsorbent involves: optional formation of cDNA from mRNA; attaching an
ss or ds oligonucleotide (ON) tag (from a repertoire of at least
10-10,000 tags) to each fragment, so that each tag is from the same
minimally cross-hybridizing set; sampling the
population so that different fragments have different tags; and
specifically hybridizing the tags with their ss complements, attached
as uniform populations in spatially discrete regions (10-1,000 sq um)
on the adsorbent. Each tag is 12-60 (e.g. 12-30) bases in length, and
consists of subunits 3-9 or 4-10 bases in length. The adsorbent may be
a microparticle of diameter 5-40 um, and 10,000-500,000 or more
microparticles may be used. The tags may have homopyrimidine and
homopurine strands, and the complement may be homopyrimidine. The tags
differ from each other in the set by at least 3-6 bp. Tagged ONs may
also be used as DNA probes, which are hybridized and ligated to detect
adjacent portions of target DNA. The method may be automated for use in
large-scale mapping, DNA sequencing and genetic disease diagnosis.
(78pp)

4/7/6 (Item 4 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs
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0196582 DBA Accession No.: 96-07962 PATENT
Molecular tagging system - using oligonucleotide tag, for large-scale DNA
sequencing, etc.

AUTHOR: Brenner S

CORPORATE SOURCE: Hayward, CA, USA.

PATENT ASSIGNEE: Lynx-Ther. 1996

PATENT NUMBER: WO 9612014 PATENT DATE: 960425 WPI ACCESSION NO.:
96-222001 (9622)

PRIORITY APPLIC. NO.: US 358810 APPLIC. DATE: 941219

NATIONAL APPLIC. NO.: WO 95US12791 APPLIC. DATE: 951012

LANGUAGE: English

ABSTRACT: A method is claimed of tracking, identifying and/or sorting
classes or subpopulations of molecules using oligonucleotide tags. Each
oligonucleotide tag consists of various 3-6 nucleotide subunits
selected from a **minimally cross-hybridizing** set. A
subunit of a **minimally cross-hybridizing** set forms a
duplex or a triplex having at least 2 mismatches with the complement of
any other subunit of the same set. The number of oligonucleotide tags
available depends on the number of subunits per tag and on the length
of the subunit. The oligonucleotide tags can be used for sorting
polynucleotides by specifically hybridizing tags attached to the

polynucleotides to their complements on solid-phase supports. This provides a read automated system for manipulating and sorting polynucleotides, particularly useful in large-scale parallel operations, such as large-scale DNA sequencing, mRNA fingerprinting, etc., where many target polynucleotides or many segments of a single target polynucleotide are sequenced simultaneously. (61pp)

? e au=Brenner, S

Ref	Items	Index-term
E1	2	AU=BRENNER, RUDOLFO R.
E2	1	AU=BRENNER, RUDOLFO ROBERTO
E3	0	*AU=BRENNER, S
E4	75	AU=BRENNER, S.
E5	1	AU=BRENNER, S. E.
E6	5	AU=BRENNER, S. L.
E7	1	AU=BRENNER, S. S
E8	65	AU=BRENNER, S. S.
E9	3	AU=BRENNER, S. SIDNEY
E10	3	AU=BRENNER, SARA
E11	4	AU=BRENNER, SARAH
E12	1	AU=BRENNER, SEBASTIAN

Enter P or PAGE for more

? e au=Brenner, Sydney

Ref	Items	Index-term
E1	8	AU=BRENNER, STEVEN H.
E2	1	AU=BRENNER, STEVEN R.
E3	143	*AU=BRENNER, SYDNEY
E4	17	AU=BRENNER, T.
E5	1	AU=BRENNER, T. E.
E6	1	AU=BRENNER, T. J.
E7	1	AU=BRENNER, T. L.
E8	40	AU=BRENNER, TALMA
E9	1	AU=BRENNER, TAMARA
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E11	2	AU=BRENNER, THEODORE E.
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? s e3

S6 143 AU="BRENNER, SYDNEY"

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...examined 50 records (50)
 ...examined 50 records (100)
 ...completed examining records
 S7 133 RD (unique items)
 ? t s7/6/1-33

7/6/1 (Item 1 from file: 399)
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A genetic screen to identify sequences that mediate protein oligomerization in Escherichia coli

7/6/2 (Item 2 from file: 399)
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? t s7/6/1-133

7/6/1 (Item 1 from file: 399)
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A genetic screen to identify sequences that mediate protein oligomerization in *Escherichia coli*

7/6/2 (Item 2 from file: 399)
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Generation and analysis of 25 Mb of genomic DNA from the pufferfish *Fugu rubripes* by sequence scanning

7/6/3 (Item 3 from file: 399)
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Massively parallel DNA sequencing by ligation with adaptors labeled with unique sequences identifiable by hybridization

7/6/4 (Item 4 from file: 399)
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Late changes in spliceosomal introns define clades in vertebrate evolution

7/6/5 (Item 5 from file: 399)
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A method for sequencing very long DNAs with a small set of primers that can be mutated and adapted to novel sequence information

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Solid phase selection of differentially expressed genes by competitive hybridization with reference DNA cloned on microparticles

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Analysis of 148 kb of genomic DNA around the *wnt1* locus of *Fugu rubripes*

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Distinct cis-essential modules direct the time-space pattern of the *Pax6* gene activity

7/6/9 (Item 9 from file: 399)
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Method of mapping restriction sites in immobilized polynucleotides by multiple cleavage and fragment sequencing

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Biological computation

7/6/11 (Item 11 from file: 399)
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oligonucleotide probe sets with members that do not cross-hybridize for sorting and identification of nucleic acid sequences

7/6/12 (Item 12 from file: 399)
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System and apparatus for sequential processing of analytes

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Modifications of adaptor-based DNA sequence analysis aimed at preventing self-ligation of target polynucleotides

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Identification of an evolutionarily conserved 110 base-pair cis-acting regulatory sequence that governs Wnt-1 expression in the murine neural plate

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Combinatorial libraries construction and evaluation with application in peptide design.

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DNA extension and analysis with rolling primers

7/6/17 (Item 17 from file: 399)
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Genomic structure and sequence of the pufferfish (*Fugu rubripes*) gene encoding an actin-related protein

7/6/18 (Item 18 from file: 399)
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Putative pheromone receptors related to the Ca^{2+} -sensing receptor in *Fugu*

7/6/19 (Item 19 from file: 399)

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Changes in the periplasmic linker and in the expression level affect the activity of ToxR and λ -ToxR fusion proteins in Escherichia coli

7/6/20 (Item 20 from file: 399)

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The neural cell adhesion molecule L1: genomic organization and differential splicing is conserved between man and the pufferfish Fugu

7/6/21 (Item 21 from file: 399)

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Degradative DNA sequencing by stepwise ligation and cleavage of probes to target sequences

7/6/22 (Item 22 from file: 399)

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A DNA sequencing method for use with complex mixtures using cycles of ligation and cleavage of encoded adaptors

7/6/23 (Item 23 from file: 399)

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Transgenic rats reveal functional conservation of regulatory controls between the Fugu isotocin and rat oxytocin genes

7/6/24 (Item 24 from file: 399)

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Massively parallel sequencing of sorted polynucleotides using oligonucleotide tags

7/6/25 (Item 25 from file: 399)

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Regions of human chromosome 2 (2q32-q35) and mouse chromosome 1 show synteny with the pufferfish genome (Fugu rubripes)

7/6/26 (Item 26 from file: 399)

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Cloning and sequencing of complement component C9 and its linkage to DOC-2 in the pufferfish Fugu rubripes

7/6/27 (Item 27 from file: 399)

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Comparative analysis of the polycystic kidney disease 1 (PKD1) gene reveals an integral membrane glycoprotein with multiple evolutionary conserved domains

7/6/28 (Item 28 from file: 399)

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Serine/threonine phosphatases of the pufferfish, *Fugu rubripes*

7/6/29 (Item 29 from file: 399)
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Very large-scale simultaneous sequencing of multiple polynucleotides in a sample by capture into organized arrays with short sequence tags

7/6/30 (Item 30 from file: 399)
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Short-range linkage relationships of the valyl-tRNA synthetase gene in *Fugu rubripes*

7/6/31 (Item 31 from file: 399)
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Genomic structure and sequence analysis of the valyl-tRNA synthetase gene of the Japanese pufferfish, *Fugu rubripes*

7/6/32 (Item 32 from file: 399)
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Molecular cloning of 5-hydroxytryptamine (5-HT) type 1 receptor genes from the Japanese puffer fish, *Fugu rubripes*

7/6/33 (Item 33 from file: 399)
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Lambdoid bacteriophage vectors for expression and display of foreign proteins as fusion products with phage tail protein matrix-anchoring domain

7/6/34 (Item 34 from file: 399)
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Organization of the *Fugu rubripes* Hox clusters: evidence for continuing evolution of vertebrate Hox complexes

7/6/35 (Item 35 from file: 399)
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Polynucleotide detection by isothermal amplification

7/6/36 (Item 36 from file: 399)
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Genomic structure and sequence of the pufferfish (*Fugu rubripes*) growth hormone-encoding gene: a comparative analysis of teleost growth hormone genes

7/6/37 (Item 37 from file: 399)
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Methods for sorting polynucleotides using minimally cross-hybridizing oligonucleotide tags

7/6/38 (Item 38 from file: 399)
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DNA sequencing by stepwise ligation and cleavage without need of electrophoretic separation of similarly sized DNA fragment intermediates

7/6/39 (Item 39 from file: 399)
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oligonucleotide tags for nucleic acid sorting or identification, computer programs, and applications such as large-scale DNA sequence analysis or mRNA fingerprinting

7/6/40 (Item 40 from file: 399)
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A novel bacterial vector system for monitoring protein-protein interactions in the cAMP-dependent protein kinase complex

7/6/41 (Item 41 from file: 399)
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G protein alpha subunit multigene family in the Japanese puffer fish *Fugu rubripes*: PCR from a compact vertebrate genome

7/6/42 (Item 42 from file: 399)
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Fugu intron oversize reveals the presence of U15 snoRNA coding sequences in some introns of the ribosomal protein S3 gene

7/6/43 (Item 43 from file: 399)
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Conserved linkage between the puffer fish (*Fugu rubripes*) and human genes for platelet-derived growth factor receptor and macrophage colony-stimulating factor receptor

7/6/44 (Item 44 from file: 399)
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The tuberin (TSC2), autosomal dominant polycystic kidney disease (PKD1), and somatostatin type V receptor (SSTR5) genes form a synteny group in the *Fugu* genome

7/6/45 (Item 45 from file: 399)
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Molecular cloning of two cannabinoid type 1-like receptor genes from the puffer *fugu rubripes*

7/6/46 (Item 46 from file: 399)
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Molecular cloning of the novel human G protein-coupled receptor (GPCR)

7/6/47 (Item 47 from file: 399)
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Genomic organization of the fungus *Phycomyces*

7/6/48 (Item 48 from file: 399)
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A functional role for some *Fugu* introns larger than the typical short ones: the example of the gene coding for ribosomal protein S7 and snoRNA U17

7/6/49 (Item 49 from file: 399)
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Surface display of proteins on bacteriophage .lambda. heads

7/6/50 (Item 50 from file: 399)
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DNA sequencing using cycles of ligation and cleavage

7/6/51 (Item 51 from file: 399)
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The conserved role of *Krox-20* in directing *Hox* gene expression during vertebrate hindbrain segmentation

7/6/52 (Item 52 from file: 399)
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Translocation events in the evolution of aminoacyl-tRNA synthetases

7/6/53 (Item 53 from file: 399)
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Interaction between cAMP-dependent protein kinase catalytic subunit and peptide inhibitors analyzed with .lambda. repressor fusions

7/6/54 (Item 54 from file: 399)
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Identifying, sorting and tracking molecules by labeling them with non-cross-hybridizing oligonucleotide tags

7/6/55 (Item 55 from file: 399)
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Cloning and functional expression of cDNAs encoding human and rat pancreatic polypeptide receptors

7/6/56 (Item 56 from file: 399)
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7/6/57 (Item 57 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Small is beautiful: comparative genomics with the pufferfish (*Fugu rubripes*)

7/6/58 (Item 58 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

The Origin and Past of Modern Humans as Viewed from DNA. (Proceedings of the Workshop on the Origin and Past of *Homo sapiens* as Viewed from DNA-Theoretical Approach held in Kyoto, 14-17 December, 1993.) (In: Recent Adv. Hum. Biol., 1995; 1)

7/6/59 (Item 59 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Sequence analysis of Mhc class II .beta.-like fragments in the pufferfish *Fugu rubripes*

7/6/60 (Item 60 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

DNA sequencing by repeated cycles of probe ligation with target DNA terminus and cleavage of probe with nuclease

7/6/61 (Item 61 from file: 399)
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Liquid-phase combinatorial synthesis

7/6/62 (Item 62 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Genomic structure and nucleotide sequence of the p55 gene of the puffer fish *Fugu rubripes*

7/6/63 (Item 63 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Segmental expression of *Hoxb-1* is controlled by a highly conserved autoregulatory loop dependent upon *exd/pbx*

7/6/64 (Item 64 from file: 399)
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Combinatorial libraries and methods for their use in drug discovery

7/6/65 (Item 65 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Comparative sequence analysis of the human and pufferfish Huntington's disease genes

7/6/66 (Item 66 from file: 399)
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Genomic structure and sequence of the Fugu rubripes glucose-6-phosphate dehydrogenase gene (G6PD)

7/6/67 (Item 67 from file: 399)
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Detecting conserved regulatory elements with the model genome of the Japanese puffer fish, Fugu rubripes

7/6/68 (Item 68 from file: 399)
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Analysis of the dopamine receptor family in the compact genome of the puffer fish Fugu rubripes

7/6/69 (Item 69 from file: 399)
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One armed PCR (OA-PCR): amplification of genomic DNA from a single primer domain

7/6/70 (Item 70 from file: 399)
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Recursive deconvolution of combinatorial chemical libraries

7/6/71 (Item 71 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A conserved retinoic acid response element required for early expression of the homeobox gene Hoxb-1

7/6/72 (Item 72 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

.lambda.foo: a .lambda. phage vector for the expression of foreign proteins

7/6/73 (Item 73 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Single-molecule detection by laser-induced fluorescence technique with a position-sensitive photon-counting apparatus

7/6/74 (Item 74 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Synthetic methods for the implementation of encoded combinatorial chemistry

7/6/75 (Item 75 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Encoded combinatorial chemical libraries

7/6/76 (Item 76 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Automated sequencing of large fragments of DNA using bases labelled with cleavable reporter groups

7/6/77 (Item 77 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Vectors .lambda.200g and .lambda.200c: Two useful derivatives of .lambda.2001

7/6/78 (Item 78 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

DNA fingerprinting by sampled sequencing

7/6/79 (Item 79 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A selective .lambda. phage cloning vector with automatic excision of the insert in a plasmid

7/6/80 (Item 80 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A polymerase chain reaction method for preparation of a cDNA population with all cDNAs equally represented

7/6/81 (Item 81 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

The Caenorhabditis elegans unc-13 gene product is a phospholipid-dependent high-affinity phorbol ester receptor

7/6/82 (Item 82 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Expression of the mosquitocidal toxins of Bacillus sphaericus and Bacillus thuringiensis subsp. israelensis by recombinant Caulobacter crescentus, a vehicle for biological control of aquatic insect larvae. (Erratum to document cited in CA116(21):208833v)

7/6/83 (Item 83 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Encoded combinatorial chemistry

7/6/84 (Item 84 from file: 399)

DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Cysteinyl-tRNA synthetase is a direct descendant of the first

7/6/85 (Item 85 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A phorbol ester/diacylglycerol-binding protein encoded by the unc-13 gene of *Caenorhabditis elegans*

7/6/86 (Item 86 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Manufacture of insecticidal proteins with caulobacters

7/6/87 (Item 87 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Process for nucleic acid detection by binary amplification

7/6/88 (Item 88 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Canonical ordered cosmid library of the symbiotic plasmid of *Rhizobium* species NGR234

7/6/89 (Item 89 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

The human genome: the nature of the enterprise

7/6/90 (Item 90 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Model for signal sequence recognition from amino-acid sequence of 54K subunit of signal recognition particle

7/6/91 (Item 91 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Paramyosin gene (unc-15) of *Caenorhabditis elegans*. Molecular cloning, nucleotide sequence and models for thick filament structure

7/6/92 (Item 92 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Mapping restriction sites on DNA with fluorescent labels and interrupted-palindrome restriction enzymes

7/6/93 (Item 93 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Myosin heavy chain gene amplification as a suppressor mutation in *Caenorhabditis elegans*

7/6/94 (Item 94 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

7/6/95 (Item 95 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

The molecular evolution of genes and proteins: a tale of two serines

7/6/96 (Item 96 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Phosphotransferase sequence homology

7/6/97 (Item 97 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Transformation of *Arthrobacter* and studies on the transcription of the *Arthrobacter* *ermA* gene in *Streptomyces lividans* and *Escherichia coli*

7/6/98 (Item 98 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Toward a physical map of the genome of the nematode *Caenorhabditis elegans*

7/6/99 (Item 99 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A novel calmodulin-like gene from the nematode *Caenorhabditis elegans*

7/6/100 (Item 100 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Cloning and sequencing of the gene encoding cytochrome *c3* from *Desulfovibrio vulgaris* (Hildenborough)

7/6/101 (Item 101 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

An erythromycin-resistance gene from an erythromycin-producing strain of *Arthrobacter* sp

7/6/102 (Item 102 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Identical short peptide sequences in unrelated proteins can have different conformations: A testing ground for theories of immune recognition

7/6/103 (Item 103 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Cloning of the gene encoding the hydrogenase from *Desulfovibrio vulgaris* (Hildenborough) and determination of the amino-terminal sequence

7/6/104 (Item 104 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Nucleotide sequence of the gene encoding the hydrogenase from
Desulfovibrio vulgaris (Hildenborough)

7/6/105 (Item 105 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A new selective phage cloning vector, .lambda.2001, with sites for XbaI,
BamHI, HindIII, EcoRI, SstI and XhoI

7/6/106 (Item 106 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A selection for myosin heavy chain mutants in the nematode *Caenorhabditis*
elegans

7/6/107 (Item 107 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

New bacteriophage lambda vectors with positive selection for cloned
inserts

7/6/108 (Item 108 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Protein structural domains in the *Caenorhabditis elegans* unc-54 myosin
heavy chain gene are not separated by introns

7/6/109 (Item 109 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

The phasmid as a tool for plasmid genetics. II. Isolation of point
mutations that affect replication of a ColE1-related plasmid

7/6/110 (Item 110 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

The phasmid as a tool for plasmid genetics. I. Fine structure of the
.beta.-lactamase gene

7/6/111 (Item 111 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Unique insertion site of Tn7 in the *E. coli* chromosome

7/6/112 (Item 112 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Phasmids: hybrids between ColE1 plasmids and *E. coli* bacteriophage
lambda

7/6/113 (Item 113 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Site-specific properties of Tn7 transposition into the E. coli chromosome

7/6/114 (Item 114 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Molecular analysis of the unc-54 myosin heavy-chain gene of
Caenorhabditis elegans

7/6/115 (Item 115 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Novel bacteriophage .lambda. cloning vector

7/6/116 (Item 116 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Molecular genetics of the nematode

7/6/117 (Item 117 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A suppressor mutation in the nematode acting on specific alleles of many
genes

7/6/118 (Item 118 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Regulatory mutants of dihydrofolate reductase in Escherichia coli K12

7/6/119 (Item 119 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Paramyosin of Caenorhabditis elegans

7/6/120 (Item 120 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

New directions in molecular biology

7/6/121 (Item 121 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Nonsense mutants and the genetic code. A small piece of molecular
genetics

7/6/122 (Item 122 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Identification of an ochre-suppressing anticodon

7/6/123 (Item 123 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Mutant tyrosine transfer ribonucleic acids

7/6/124 (Item 124 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Duplicate genes for tyrosine transfer RNA in Escherichia coli

7/6/125 (Item 125 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Mutant tyrosine transfer ribonucleic acids

7/6/126 (Item 126 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Amber suppression. Nucleotide change in the anticodon of a tyrosine transfer RNA

7/6/127 (Item 127 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A mutant which reinitiates the polypeptide chain after chain termination

7/6/128 (Item 128 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Studies on amber suppressor transfer RNA

7/6/129 (Item 129 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Nonsense codons

7/6/130 (Item 130 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Spontaneous revertants of amber mutants

7/6/131 (Item 131 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

Further evidence that UGA does not code for tryptophan

7/6/132 (Item 132 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

A strong suppressor specific for UGA

7/6/133 (Item 133 from file: 399)
DIALOG(R)File 399:(c) 2000 American Chemical Society. All rts. reserv.

UGA: a third nonsense triplet in the genetic code
? ds

Set	Items	Description
S1	20	OLIGONUCLEOTIDE (W) TAG

S2 0 (MINIMALLY (W) CROSS (W) HYBRIDIZING)
 S3 6 (MINIMALLY (W) CROSS (W) HYBRIDIZING)
 S4 6 RD (unique items)
 S5 16 RD S1 (unique items)
 S6 143 AU="BRENNER, SYDNEY"
 S7 133 RD (unique items)
 ? ds

Set	Items	Description
S1	20	OLIGONUCLEOTIDE (W). TAG
S2	0	(MINIMALLY (W) CROSS (W) HYBRIDIZING)
S3	6	(MINIMALLY (W) CROSS (W) HYBRIDIZING)
S4	6	RD (unique items)
S5	16	RD S1 (unique items)
S6	143	AU="BRENNER, SYDNEY"
S7	133	RD (unique items)

? t
 s7/7/3,5,6,9,11-13,15,16,21,22,24,29,35,37-39,50,54,56,60,61,64,69,70,74-76,78
 ,80,83,87,94,120

7/7/3 (Item 3 from file: 399)
 DIALOG(R) File 399:CA SEARCH(R)
 (c) 2000 American Chemical Society. All rts. reserv.

132074511 CA: 132(7)74511h PATENT
 Massively parallel DNA sequencing by ligation with adaptors labeled with
 unique sequences identifiable by hybridization
 INVENTOR(AUTHOR): Albrecht, Glenn; Brenner, Sydney; Dubridge, Robert B.;
 Lloyd, David H.; Pallas, Michael C.
 LOCATION: USA
 ASSIGNEE: Lynx Therapeutics, Inc.
 PATENT: United States ; US 6013445 A DATE: 20000111
 APPLICATION: US 946138 (19971007) *US 659453 (19960606) *US 689587
 (19960812) *US 862610 (19970523)
 PAGES: 41 pp., Cont.-in-part of U.S. Ser. No. 862,610, abandoned.
 CODEN: USXXAM LANGUAGE: English CLASS: 435006000; C12Q-001/68A;
 C07H-021/02B
 SECTION:
 CA203001 Biochemical Genetics
 IDENTIFIERS: massively parallel DNA sequencing ligation adaptor
 hybridization
 DESCRIPTORS:
 Oligonucleotides...
 adaptor oligonucleotides for sequencing; massively parallel DNA
 sequencing by ligation with adaptors labeled with unique sequences
 identifiable by hybridization
 Computer program...
 for design of probe sets for DNA sequencing; massively parallel DNA
 sequencing by ligation with adaptors labeled with unique sequences
 identifiable by hybridization
 Probes(nucleic acid)...
 ligation and hybridization; massively parallel DNA sequencing by
 ligation with adaptors labeled with unique sequences identifiable by
 hybridization
 DNA sequence analysis...
 massively parallel DNA sequencing by ligation with adaptors labeled
 with unique sequences identifiable by hybridization
 CAS REGISTRY NUMBERS:
 9015-85-4 massively parallel DNA sequencing by ligation with adaptors
 labeled with unique sequences identifiable by hybridization
 9075-08-5 type IIS; massively parallel DNA sequencing by ligation with
 adaptors labeled with unique sequences identifiable by hybridization
 190406-20-3 190412-46-5 190412-47-6 222597-77-5 222597-78-6

222649-74-3 253660-20-7 253660-21-8 253660-22-9 253660-23-0
253660-24-1 253660-25-2 253660-26-3 253660-27-4 253660-28-5
253660-29-6 253660-30-9 253660-31-0 253660-32-1 253660-33-2
253660-34-3 253660-35-4 253660-36-5 253660-37-6 253660-38-7
253660-39-8 253660-40-1 253660-41-2 unclaimed nucleotide sequence;
massively parallel DNA sequencing by ligation with adaptors labeled
with unique sequences identifiable by hybridization

7/7/5 (Item 5 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

131267933 CA: 131(20)267933k PATENT
A method for sequencing very long DNAs with a small set of primers that
can be mutated and adapted to novel sequence information
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: United States ; US 5962228 A DATE: 19991005
APPLICATION: US 916120 (19970822) *US 560313 (19951117) *US 611155
(19960305)
PAGES: 28 pp., Cont.-in-part of U.S. 5,780,231. CODEN: USXXAM
LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C07H-021/02B;
C07H-021/04B; C12N-015/00B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: DNA sequencing long range rolling primer, primer mutagenesis
DNA sequencing
DESCRIPTORS:
Primers(nucleic acid)...
DNA; method for sequencing very long DNAs with small set of primers
that can be mutated and adapted to novel sequence information
DNA sequence analysis... Mutation... RNA sequence analysis... Site directed
mutagenesis...
method for sequencing very long DNAs with small set of primers that can
be mutated and adapted to novel sequence information
Library(nucleic acid)...
ordered oligonucleotide array, for capture of primer extension
products; method for sequencing very long DNAs with small set of
primers that can be mutated and adapted to novel sequence information
DNA...
primer; method for sequencing very long DNAs with small set of primers
that can be mutated and adapted to novel sequence information
Nucleic acid hybridization...
using ordered oligonucleotide arrays, for capture of primer extension
products; method for sequencing very long DNAs with small set of
primers that can be mutated and adapted to novel sequence informa
CAS REGISTRY NUMBERS:
890-38-0 62471-63-0 88847-89-6 primers contg., mutation of; method for
sequencing very long DNAs with small set of primers that can be mutated
and adapted to novel sequence information
9003-98-9 removal of DNA from RNA prepns. using; method for sequencing
very long DNAs with small set of primers that can be mutated and
adapted to novel sequence information
9014-24-8 RNA sequencing using bacteriophage T7; method for sequencing
very long DNAs with small set of primers that can be mutated and
adapted to novel sequence information
245327-23-5 245328-39-6 245329-04-8 245329-06-0 245329-08-2
245329-09-3 245329-10-6 245329-11-7 245329-12-8 245329-14-0
245329-15-1 245329-16-2 245329-17-3 245329-21-9 245329-23-1
245329-24-2 245329-25-3 245662-35-5 245662-36-6 unclaimed sequence;
method for sequencing very long DNAs with a small set of primers that
can be mutated and adapted to novel sequence information

7/7/6 (Item 6 fr file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

131083965 CA: 131(7)83965r PATENT
Solid phase selection of differentially expressed genes by competitive hybridization with reference DNA cloned on microparticles
INVENTOR(AUTHOR): Albrecht, Glen; Brenner, Sydney; Dubridge, Robert
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: PCT International ; WO 9935293 A2 DATE: 19990715
APPLICATION: WO 99US666 (19990108) *US 5222 (19980109) *US 130446 (19980806)
PAGES: 108 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A
DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM ; KE; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: gene expression differential solid phase selection, competitive hybridization gene expression differential selection, microparticle ref DNA differential gene expression, fluorescence activated cell sorting differential gene expression, sequencing differential gene expression selection
DESCRIPTORS:
Nucleic acid hybridization...
competitive; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
Gene expression...
differential; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
Flow cytometry...
FACS (fluorescence-activated cell sorting); solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
DNA sequence analysis...
MPSS (massively parallel signature sequencing); solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
Muscle...
normal and glucose-starved; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
Bone marrow...
rare genes from; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
Apoptosis... Cell cycle... DNA damage... DNA repair... Metabolism... Signal transduction(biological)... Stress(animal)... Stress(microbial)...
Stress(plant)...
ref. polynucleotides encoding protein involved in; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
p53(protein)... Rb protein...
ref. polynucleotides encoding proteins in pathway; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
Cytokines... Cytoskeleton... Receptors... Transcription factors...
Transforming proteins...

ref. polynucleotides encoding; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles

Tumor suppressor genes (animal)...
 ref. polynucleotides; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles

Fluorescent indicators... Microparticles... mRNA... Standard substances (biological)...
 solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles

THP-1 cell...
 stimulated and unstimulated; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles

Oligodeoxyribonucleotides...
 tags; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles

CAS REGISTRY NUMBERS:
 146368-14-1 Cy5; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
 9001-92-7 9013-05-2 9031-44-1 ref. polynucleotides encoding; solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles
 2321-07-5 solid phase selection of differentially expressed genes by competitive hybridization with ref. DNA cloned on microparticles

7/7/9 (Item 9 from file: 399)
 DIALOG(R) File 399:CA SEARCH(R)
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130091261 CA: 130(8)91261c PATENT
 Method of mapping restriction sites in immobilized polynucleotides by multiple cleavage and fragment sequencing
 INVENTOR(AUTHOR): Brenner, Sydney
 LOCATION: USA
 ASSIGNEE: Lynx Therapeutics, Inc.
 PATENT: PCT International ; WO 990519 A1 DATE: 19990107
 APPLICATION: WO 98US13335 (19980625) *US 884189 (19970627)
 PAGES: 48 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A
 DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

SECTION:
 CA203001 Biochemical Genetics
 IDENTIFIERS: parallel sequencing high resolu restriction fragment mapping immobilized DNA
 DESCRIPTORS:
 Single stranded DNA...
 as tag oligonucleotide; mapping restriction sites in immobilized polynucleotides by multiple cleavage and fragment sequencing

DNA...
 immobilized; mapping restriction sites in immobilized polynucleotides by multiple cleavage and fragment sequencing

DNA methylation... DNA sequence alignment... Restriction mapping...
 mapping restriction sites in immobilized polynucleotides by multiple cleavage and fragment sequencing

DNA sequence analysis...
 MPSS (massively parallel signature sequencing); mapping restriction sites in immobilized polynucleotides by multiple cleavage and fragment

sequencing
Oligonucleotides...
tags and adaptors; mapping restriction sites in immobilized
polynucleotides by multiple cleavage and fragment sequencing
CAS REGISTRY NUMBERS:
9075-08-5 mapping restriction sites in immobilized polynucleotides by
multiple cleavage and fragment sequencing

7/7/11 (Item 11 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

130048286 CA: 130(5)48286c PATENT
oligonucleotide probe sets with members that do not cross-hybridize for
sorting and identification of nucleic acid sequences
INVENTOR(AUTHOR): Brenner, Sydney; Albrecht, Glenn; Macevicz, Stephen C.
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: United States ; US 5846719 A DATE: 19981208
APPLICATION: US 659453 (19960606) *US 322348 (19941013) *US 358810
(19941219)
PAGES: 38 pp., Cont.-in-part of U.S. 5,604,097. CODEN: USXXAM
LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C07H-021/00B;
C07H-021/04B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: probe nucleic acid population labeling hybridization,
sequence sorting hybridization probe labeling immobilization capture
DESCRIPTORS:
Computer program...
for design of oligonucleotide probes; oligonucleotide probe sets with
members that do not cross-hybridize for sorting and identification of
nucleic acid sequences
DNA sequence analysis... Genetic methods...
hybridization labeling of nucleic acids for; oligonucleotide probe sets
with members that do not cross-hybridize for sorting and identification
of nucleic acid sequences
Immobilization(molecular)...
of oligonucleotides on microparticles; oligonucleotide probe sets with
members that do not cross-hybridize for sorting and identification of
nucleic acid sequences
Library(nucleic acid)...
of probes for labeling nucleic acid populations; oligonucleotide probe
sets with members that do not cross-hybridize for sorting and
identification of nucleic acid sequences
Genotyping(method)... Nucleic acid hybridization... Probes(nucleic acid)...
oligonucleotide probe sets with members that do not cross-hybridize for
sorting and identification of nucleic acid sequences
Triplex(DNA structure)...
oligonucleotides forming; oligonucleotide probe sets with members that
do not cross-hybridize for sorting and identification of nucleic acid
sequences

7/7/12 (Item 12 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

130021343 CA: 130(3)21343g PATENT
System and apparatus for sequential processing of analytes
INVENTOR(AUTHOR): Pallas, Michael C.; Brenner, Sydney; Bridgham, John;
Corcoran, Kevin; Golda, George
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.

PATENT: PCT International ; WO 9853300 A2 DATE: 1998-126
APPLICATION: WO 98U 224 (19980522) *US 862610 (1998-023)
PAGES: 43 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: G01N-021/00A;
G01N-021/29B; G01N-021/64B; B01J-010/00B; C07H-019/00B
DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN;
CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS; JP; KE; KG;
KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL;
PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU;
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS
; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT;
LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG
SECTION:
CA203001 Biochemical Genetics
CA206XXX General Biochemistry
CA209XXX Biochemical Methods
IDENTIFIERS: microparticle array optical analysis analyte DNA library
DESCRIPTORS:
CCD cameras... cDNA library... Combinatorial library... DNA... Fluorescence
... Fluorometers... Fluorometry... Library(nucleic acid)... Light...
Microparticles... Nucleic acid hybridization... Oligonucleotides... Optical
instruments... Spectrometers...
sequential processing of analytes and DNA using microparticle array

7/7/13 (Item 13 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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129311686 CA: 129(24)311686s PATENT
Modifications of adaptor-based DNA sequence analysis aimed at preventing
self-ligation of target polynucleotides
INVENTOR(AUTHOR): Dubridge, Robert B.; Albrecht, Glenn; Brenner, Sydney;
Gryaznov, Sergei M.; McCurdy, Sarah N.
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: PCT International ; WO 9846621 A1 DATE: 19981022
APPLICATION: WO 98US7592 (19980414) *US 842608 (19970415)
PAGES: 47 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07H-021/04A;
C12Q-001/68B DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY;
CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS;
JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX;
NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US;
UZ; VN; YU; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH
; GM; KE; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE;
SN; TD; TG
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: adapter sequencing self ligation prevention
DESCRIPTORS:
Microparticles...
as matrix for immobilization of adapters; modifications of
adaptor-based DNA sequence anal. aimed at preventing self-ligation of
target polynucleotides
Glass, uses...
CPG, microparticles as matrix for immobilization of adapters;
modifications of adaptor-based DNA sequence anal. aimed at preventing
self-ligation of target polynucleotides
Elimination reaction...
dephosphorylation, 5'-, of target sequences for adapter-based nucleic
acid sequencing; modifications of adaptor-based DNA sequence anal.
aimed at preventing self-ligation of target polynucleotides
Primers(nucleic acid)...
for adapter-based sequencing, prevention of self-ligation of;
modifications of adaptor-based DNA sequence anal. aimed at preventing

self-ligation of target polynucleotides
DNA sequence analysis
modifications of adaptor-based DNA sequence anal. aimed at preventing
self-ligation of target polynucleotides
Phosphorylation...
of adaptors after hybridization to target sequence; modifications of
adaptor-based DNA sequence anal. aimed at preventing self-ligation of
target polynucleotides
Protective groups...
on 3'-hydroxyl of adapters, in prevention of self-ligation;
modifications of adaptor-based DNA sequence anal. aimed at preventing
self-ligation of target polynucleotides
Nucleic acids...
self-ligation of, prevention in DNA sequencing of; modifications of
adaptor-based DNA sequence anal. aimed at preventing self-ligation of
target polynucleotides
CAS REGISTRY NUMBERS:
9015-85-4 in adapter-based DNA sequencing; modifications of adaptor-based
DNA sequence anal. aimed at preventing self-ligation of target
polynucleotides
9003-53-6 25067-05-4 microparticles as matrix for immobilization of
adapters; modifications of adaptor-based DNA sequence anal. aimed at
preventing self-ligation of target polynucleotides
9075-08-5 type IIS, adapters carrying cleavage site for; modifications of
adaptor-based DNA sequence anal. aimed at preventing self-ligation of
target polynucleotides

7/7/15 (Item 15 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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129227824 CA: 129(18)227824c PATENT
Combinatorial libraries construction and evaluation with application in
peptide design.
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Combichem, Inc.
PATENT: United States ; US 5807683 A DATE: 19980915
APPLICATION: US 281195 (19940726) *US 978646 (19921119) *US 168966
(19931215)
PAGES: 20 pp. Cont.-in-part of U.S. Ser. No. 168,966, abandoned. CODEN:
USXXAM LANGUAGE: English CLASS: 435007100; G01N-033/53A
SECTION:
CA209016 Biochemical Methods
CA203XXX Biochemical Genetics
CA206XXX General Biochemistry
IDENTIFIERS: combinatorial library peptide antibody endorphin
DESCRIPTORS:
Amino acids,biological studies... Combinatorial chemistry... Combinatorial
library... Drug screening... Peptide library... Peptides,biological studies
... Protein sequence analysis... Protein sequences...
Proteins(general),biological studies... Receptors... Solid phase peptide
synthesis...
combinatorial libraries construction and evaluation with application in
peptide design
Monoclonal antibodies...
to .beta.-endorphin; combinatorial libraries construction and
evaluation with application in peptide design
CAS REGISTRY NUMBERS:
60617-12-1 80479-94-3 168094-51-7 168094-52-8 combinatorial libraries
construction and evaluation with application in peptide design

7/7/16 (Item 16 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)
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129105216 CA: 129(9)105216k PATENT
DNA extension and analysis with rolling primers
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: United States ; US 5780231 A DATE: 19980714
APPLICATION: US 611155 (19960305) *US 560313 (19951117)
PAGES: 24 pp. Cont.-in-part of U.S. Ser. No. 560,313. CODEN: USXXAM
LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C12P-019/34B;
C12N-015/00B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: DNA sequencing rolling primer deoxyinosine mutagenesis
DESCRIPTORS:
DNA sequence analysis... PCR(polymerase chain reaction)...
DNA extension and anal. with rolling primers
Mutagenesis...
oligonucleotide-mediated; DNA extension and anal. with rolling primers
CAS REGISTRY NUMBERS:
890-38-0 16595-02-1 DNA extension and anal. with rolling primers

7/7/21 (Item 21 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

128163648 CA: 128(14)163648t PATENT
Degradative DNA sequencing by stepwise ligation and cleavage of probes to
target sequences
INVENTOR(AUTHOR): Brenner, Sydney; Dubridge, Robert B.
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: United States ; US 5714330 A DATE: 19980203
APPLICATION: US 667689 (19960621) *US 222300 (19940404) *US 280441
(19940725) *US 410116 (19950324)
PAGES: 43 pp. Cont.-in-part of U.S. 5,599,675. CODEN: USXXAM LANGUAGE:
English CLASS: 435006000; C12Q-001/68A; C12P-019/34B; C07H-021/04B;
C07H-021/02B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: DNA sequencing ligation cleavage cycle
DESCRIPTORS:
DNA sequence analysis...
degradative DNA sequencing by stepwise ligation and cleavage of probes
to target sequences
Nucleotides, analysis...
dideoxynucleotides, in capping of DNA in ligation-cleavage sequencing;
degradative DNA sequencing by stepwise ligation and cleavage of probes
to target sequences
Probes(nucleic acid)...
immobilized; degradative DNA sequencing by stepwise ligation and
cleavage of probes to target sequences
CAS REGISTRY NUMBERS:
9015-85-4 degradative DNA sequencing by stepwise ligation and cleavage of
probes to target sequences
9037-42-7 in sample processing for cleavage-based DNA sequencing;
degradative DNA sequencing by stepwise ligation and cleavage of probes
to target sequences
9075-08-5 type IIs; degradative DNA sequencing by stepwise ligation and
cleavage of probes to target sequences

7/7/22 (Item 22 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

128071623 CA: 128(7)71623c PATENT
A DNA sequencing method for use with complex mixtures using cycles of ligation and cleavage of encoded adaptors
INVENTOR(AUTHOR): Albrecht, Glenn; Brenner, Sydney; Lloyd, David H.; Dubridge, Robert B.; Pallas, Michael C.
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: PCT International ; WO 9746704 A1 DATE: 19971211
APPLICATION: WO 97US9472 (19970602) *US 659453 (19960606) *US 689587 (19960812)
PAGES: 81 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A
DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; GH; HU; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TR; TT; UA; UG; UZ; VN; YU; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; KE; LS; MW; SD; SZ; UG; AT; BE; CH; DE ; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG
SECTION:
CA203001 Biochemical Genetics
CA209XXX Biochemical Methods
IDENTIFIERS: DNA sequencing encoded adaptor ligation
DESCRIPTORS:
Probes(nucleic acid)...
adaptor, for use in DNA sequencing; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors
Oligonucleotides...
adaptors; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors
mRNA...
characterization of populations of; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors
DNA sequence analysis... Nucleic acid hybridization...
DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors
Computer program...
for generation of minimally cross-hybridizing sets of adaptor probes; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors
CAS REGISTRY NUMBERS:
9015-85-4 DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors
9075-08-5 type IIs; DNA sequencing method for use with complex mixts. using cycles of ligation and cleavage of encoded adaptors

7/7/24 (Item 24 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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128058277 CA: 128(6)58277y PATENT
Massively parallel sequencing of sorted polynucleotides using oligonucleotide tags
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: United States ; US 5695934 A DATE: 19971209
APPLICATION: US 359295 (19941219) *US 322348 (19941013)
PAGES: 26 pp. Cont.-in-part of U.S. Ser. No. 322,348, abandoned. CODEN:

SECTION:

CA203001 Biochemical Genetics

CA209XXX Biochemical Methods

IDENTIFIERS: massive parallel DNA sequencing oligonucleotide tag

DESCRIPTORS:

Peptide nucleic acids...

antisense monomers; massively parallel sequencing of sorted
polynucleotides using oligonucleotide tags

DNA sequence analysis... Oligodeoxyribonucleotides...

massively parallel sequencing of sorted polynucleotides using
oligonucleotide tags

Nucleotides, uses...

phosphoramidates, antisense monomers; massively parallel sequencing of
sorted polynucleotides using oligonucleotide tags

7/7/29 (Item 29 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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127244005 CA: 127(18)244005n PATENT

Very large-scale simultaneous sequencing of multiple polynucleotides in a
sample by capture into organized arrays with short sequence tags

INVENTOR(AUTHOR): Brenner, Sydney

LOCATION: USA

ASSIGNEE: Lynx Therapeutics, Inc.; Brenner, Sydney

PATENT: PCT International ; WO 9732999 A1 DATE: 19970912

APPLICATION: WO 96US18708 (19961119) *US 560313 (19951117) *US 611155
(19960305)

PAGES: 84 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A

DESIGNATED COUNTRIES: AU; CA; CN; CZ; EE; FI; HU; IS; JP; KR; LT; LV; MX;
NO; NZ; PL; RU; SG; US; US DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FI
; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

SECTION:

CA203001 Biochemical Genetics

IDENTIFIERS: ordered array multiplex DNA sequencing, oligonucleotide
tagging multiplex DNA sequencing

DESCRIPTORS:

Oligonucleotides...

for capture and immobilization of nucleic acids; very large-scale
simultaneous sequencing of multiple polynucleotides in sample by
capture into organized arrays with short sequence tags

Primers(nucleic acid)...

for capture and sequencing of nucleic acids; very large-scale
simultaneous sequencing of multiple polynucleotides in sample by
capture into organized arrays with short sequence tags

Oligonucleotides...

immobilized, ordered arrays; very large-scale simultaneous sequencing
of multiple polynucleotides in sample by capture into organized arrays
with short sequence tags

PCR(polymerase chain reaction)...

labeling of immobilized sequences using; very large-scale simultaneous
sequencing of multiple polynucleotides in sample by capture into
organized arrays with short sequence tags

DNA sequence analysis...

very large-scale simultaneous sequencing of multiple polynucleotides in
sample by capture into organized arrays with short sequence tags

CAS REGISTRY NUMBERS:

890-38-0 for lowering of complexity sequencing primers; very large-scale
simultaneous sequencing of multiple polynucleotides in sample by
capture into organized arrays with short sequence tags

16595-02-1 in PCR in multiplex DNA sequencing; very large-scale
simultaneous sequencing of multiple polynucleotides in sample by
capture into organized arrays with short sequence tags

9003-98-9 shortening of immobilized nucleic acids with; very large-scale
simultaneous sequencing of multiple polynucleotides sample by
capture into organized arrays with short sequence tags

7/7/35 (Item 35 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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126273243 CA: 126(21)273243y PATENT
Polynucleotide detection by isothermal amplification
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.; Brenner, Sydney
PATENT: PCT International ; WO 9712062 A1 DATE: 19970403
APPLICATION: WO 96US15384 (19960926) *US 536743 (19950929)
PAGES: 30 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A
DESIGNATED COUNTRIES: AU; CA; JP; US DESIGNATED REGIONAL: AT; BE; CH; DE
; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: polynucleotide detection isothermal amplification
DESCRIPTORS:
Nucleic acid amplification(method)...
polynucleotide detection by isothermal amplification
CAS REGISTRY NUMBERS:
9050-76-4 9075-08-5 63774-49-2 polynucleotide detection by isothermal
amplification

7/7/37 (Item 37 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

126196092 CA: 126(15)196092u PATENT
Methods for sorting polynucleotides using minimally cross-hybridizing
oligonucleotide tags
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Spectragen, Inc.
PATENT: United States ; US 5604097 A DATE: 19970218
APPLICATION: US 358810 (19941219) *US 322348 (19941013)
PAGES: 26 pp. Cont.-in-part of U.S. Ser. No. 322,348, abandoned. CODEN:
USXXAM LANGUAGE: English CLASS: 435006000; C12Q-001/68A; C12N-015/10B;
C07H-021/00B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: polynucleotide sorting oligonucleotide tag, sequencing DNA
sorting oligonucleotide tag, mRNA identification sorting oligonucleotide
tag
DESCRIPTORS:
Magnetic materials...
beads, microparticle solid supports; methods for sorting
polynucleotides using minimally cross-hybridizing oligonucleotide tags
mRNA...
identification; methods for sorting polynucleotides using minimally
cross-hybridizing oligonucleotide tags
DNA sequence analysis... DNA... Polynucleotides... RNA...
methods for sorting polynucleotides using minimally cross-hybridizing
oligonucleotide tags
Glass,biological studies... Plastics,biological studies...
microparticle solid supports; methods for sorting polynucleotides using
minimally cross-hybridizing oligonucleotide tags
Microparticles...
solid supports; methods for sorting polynucleotides using minimally

cross-hybridizing oligonucleotide tags
Oligonucleotides...
tags; methods for sorting polynucleotides using minimally
cross-hybridizing oligonucleotide tags
CAS REGISTRY NUMBERS:
7440-21-3 biological studies, microparticle solid supports; methods for
sorting polynucleotides using minimally cross-hybridizing
oligonucleotide tags
9003-53-6 microparticle solid supports; methods for sorting
polynucleotides using minimally cross-hybridizing oligonucleotide tags

7/7/38 (Item 38 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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126167467 CA: 126(13)167467q PATENT
DNA sequencing by stepwise ligation and cleavage without need of
electrophoretic separation of similarly sized DNA fragment intermediates
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Spectragen, Inc.
PATENT: United States ; US 5599675 A DATE: 19970204
APPLICATION: US 410116 (19950324) *US 222300 (19940404) *US 280441
(19940725)
PAGES: 42 pp. Cont.-in-part of U.S. Ser. No. 222, 300, abandoned.
CODEN: USXXAM LANGUAGE: English CLASS: 435006000; C07H-021/04A;
C12P-019/34B; C12Q-001/68B
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: DNA sequencing method repeated ligation cleavage
DESCRIPTORS:
Nucleosides, uses...
dideoxy-, carbocyclic, unsatd., triphosphates; for chain termination;
DNA sequencing by stepwise ligation and cleavage without need of
electrophoretic sepn. of similarly sized DNA fragment intermediat
DNA sequence analysis...
DNA sequencing by stepwise ligation and cleavage without need of
electrophoretic sepn. of similarly sized DNA fragment intermediates
Oligonucleotides...
probes; DNA sequencing by stepwise ligation and cleavage without need
of electrophoretic sepn. of similarly sized DNA fragment intermediates
CAS REGISTRY NUMBERS:
9012-90-2 bacteriophage T4; DNA sequencing by stepwise ligation and
cleavage without need of electrophoretic sepn. of similarly sized DNA
fragment intermediates
9015-85-4 37211-65-7 DNA sequencing by stepwise ligation and cleavage
without need of electrophoretic sepn. of similarly sized DNA fragment
intermediates
9075-08-5 type II; DNA sequencing by stepwise ligation and cleavage
without need of electrophoretic sepn. of similarly sized DNA fragment
intermediates

7/7/39 (Item 39 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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126127866 CA: 126(10)127866n PATENT
oligonucleotide tags for nucleic acid sorting or identification, computer
programs, and applications such as large-scale DNA sequence analysis or
mRNA fingerprinting
INVENTOR(AUTHOR): Brenner, Sydney; Albrecht, Glenn
LOCATION: USA
ASSIGNEE: Spectragen, Inc.

PATENT: PCT International ; WO 9641011 A1 DATE: 19961009
APPLICATION: WO 96US0003 (19960606) *US 478238 (19950000) *WO 95US12791
(19951012)
PAGES: 78 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A;
C12N-015/10B; C12N-015/63B; C07H-021/00B DESIGNATED COUNTRIES: AU; BR; CA;
CN; CZ; EE; FI; HU; JP; KR; LT; LV; NO; NZ; PL; RU; SG; SI; SK
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU;
MC; NL; PT; SE

SECTION:

CA203001 Biochemical Genetics

IDENTIFIERS: nucleic acid analysis oligonucleotide tag repertoire,
computer automated polynucleotide analysis oligonucleotide tag

DESCRIPTORS:

Apparatus...

automated, large-scale parallel operations; oligonucleotide tags for
nucleic acid sorting or identification, computer programs, and
applications such as large-scale DNA sequence anal. or mRNA fingerpr

Oligonucleotides...

homo-pyrimidine-homo-purine duplexes; oligonucleotide tags for nucleic
acid sorting or identification, computer programs, and applications
such as large-scale DNA sequence anal. or mRNA fingerprinting

Oligonucleotides...

labeled, tags; oligonucleotide tags for nucleic acid sorting or
identification, computer programs, and applications such as large-scale
DNA sequence anal. or mRNA fingerprinting

DNA fingerprinting... DNA sequence analysis...

large-scale parallel operations; oligonucleotide tags for nucleic acid
sorting or identification, computer programs, and applications such as
large-scale DNA sequence anal. or mRNA fingerprinting

cDNA... Computer program... Nucleic acid hybridization... Nucleic acids...

PCR (polymerase chain reaction)...

oligonucleotide tags for nucleic acid sorting or identification,
computer programs, and applications such as large-scale DNA sequence
anal. or mRNA fingerprinting

Oligonucleotides...

primers; oligonucleotide tags for nucleic acid sorting or
identification, computer programs, and applications such as large-scale
DNA sequence anal. or mRNA fingerprinting

Immobilization (molecular)... Microparticles...

sorting onto solid support; oligonucleotide tags for nucleic acid
sorting or identification, computer programs, and applications such as
large-scale DNA sequence anal. or mRNA fingerprinting

Oligonucleotides...

tags; oligonucleotide tags for nucleic acid sorting or identification,
computer programs, and applications such as large-scale DNA sequence
anal. or mRNA fingerprinting

CAS REGISTRY NUMBERS:

58-85-5D oligonucleotide derivs., tags; oligonucleotide tags for nucleic
acid sorting or identification, computer programs, and applications
such as large-scale DNA sequence anal. or mRNA fingerprinting

7/7/50 (Item 50 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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125214254 CA: 125(17)214254j PATENT
DNA sequencing using cycles of ligation and cleavage
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Spectragen, Inc.
PATENT: United States ; US 5552278 A DATE: 960903
APPLICATION: US 280441 (940725) *US 222300 (940404)
PAGES: 24 pp. Cont.-in-part of U.S. Ser. No. 222,300, abandoned. CODEN:
USXXAM LANGUAGE: English CLASS: 435006000; C07H-021/04A; C12P-019/34B;

C12Q-001/68B

SECTION:

CA203001 Biochemical Genetics

IDENTIFIERS: ligation cleavage DNA sequencing

DESCRIPTORS:

Nucleotides,uses... Nucleotides,dideoxy-,uses...

as chain terminators in DNA sequencing; DNA sequencing using cycles of ligation and cleavage

Deoxyribonucleic acid sequence determination...

DNA sequencing using cycles of ligation and cleavage

Nucleotides,oligo-, primers,uses...

partially double-stranded, in DNA sequence; DNA sequencing using cycles of ligation and cleavage

CAS REGISTRY NUMBERS:

9003-98-9 9075-08-5 cleavage of primer complexes with target sequences using; DNA sequencing using cycles of ligation and cleavage

37211-65-7 labeling with, in DNA sequencing; DNA sequencing using cycles of ligation and cleavage

9015-85-4 primer-target ligation with, in DNA sequencing; DNA sequencing using cycles of ligation and cleavage

81457-99-0 sequence protection with, in DNA sequencing; DNA sequencing using cycles of ligation and cleavage

7/7/54 (Item 54 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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125027673 CA: 125(3)27673h PATENT

Identifying, sorting and tracking molecules by labeling them with non-cross-hybridizing oligonucleotide tags

INVENTOR(AUTHOR): Brenner, Sydney

LOCATION: USA

ASSIGNEE: Lynx Therapeutics, Inc.

PATENT: PCT International ; WO 9612014 A1 DATE: 960425

APPLICATION: WO 95US12791 (951012) *US 322348 (941013) *US 358810 (941219)

PAGES: 60 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/10A; C12Q-001/68B DESIGNATED COUNTRIES: AU; CA; CZ; FI; HU; JP; KR; NO; SG

DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

SECTION:

CA203001 Biochemical Genetics

CA209XXX Biochemical Methods

IDENTIFIERS: oligonucleotide label macromol identification tracking sorting

DESCRIPTORS:

Computer program...

for designing non-cross-hybridizing oligonucleotide families; identifying, sorting and tracking mols. by labeling them with non-cross-hybridizing oligonucleotide tags

Macromolecular compounds... Nucleotides,oligo-,biological studies...

Nucleotides,oligo-, analogs,biological studies... Peptides,miscellaneous... identifying, sorting and tracking mols. by labeling them with non-cross-hybridizing oligonucleotide tags

Deoxyribonucleic acids,complementary...

library of, sorting of; identifying, sorting and tracking mols. by labeling them with non-cross-hybridizing oligonucleotide tags

Combinatorial library...

of oligonucleotide-labeled macromols.; identifying, sorting and tracking mols. by labeling them with non-cross-hybridizing oligonucleotide tags

Deoxyribonucleic acid sequence determination...

oligonucleotide labeling of samples in; identifying, sorting and tracking mols. by labeling them with non-cross-hybridizing

oligonucleotide tags... Glass, oxide... Particles... magnetic... Plastics... Silane...
oligonucleotide tags bound to; identifying, sorting and tracking mols.
by labeling them with non-cross-hybridizing oligonucleotide tags
Molecular cloning...
selection of specific cDNAs in; identifying, sorting and tracking mols.
by labeling them with non-cross-hybridizing oligonucleotide tags
CAS REGISTRY NUMBERS:
9003-53-6 25067-05-4 oligonucleotide tags bound to; identifying, sorting
and tracking mols. by labeling them with non-cross-hybridizing
oligonucleotide tags

7/7/56 (Item 56 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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124293119 CA: 124(22)293119z PATENT
Multidimensional conduit combinatorial library synthesis device
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: UK,
PATENT: PCT International ; WO 9603212 A1 DATE: 960208
APPLICATION: WO 95IB626 (950725) *US 281194 (940726)
PAGES: 26 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: B01L-003/00A;
B01J-019/00B; C07K-001/04B DESIGNATED COUNTRIES: AM; AT; AU; BB; BG; BR;
BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IS; JP; KE; KG; KP; KR;
KZ; LK; LR; LT; LU; LV; MD; MG; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE;
SG; SI; SK; TJ; TM; TT DESIGNATED REGIONAL: KE; MW; SD; SZ; UG; AT; BE; CH
; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI;
CM; GA; GN; ML; MR; NE; SN; TD; TG
SECTION:
CA247010 Apparatus and Plant Equipment
IDENTIFIERS: compd combinatorial library synthesis device
DESCRIPTORS:
Chemical compounds...
multidimensional conduit combinatorial library synthesis device

7/7/60 (Item 60 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

124002536 CA: 124(1)2536g PATENT
DNA sequencing by repeated cycles of probe ligation with target DNA
terminus and cleavage of probe with nuclease
INVENTOR(AUTHOR): Brenner, Sydney
LOCATION: USA
ASSIGNEE: Lynx Therapeutics, Inc.
PATENT: PCT International ; WO 9527080 A2 DATE: 951012
APPLICATION: WO 95US3678 (950324) *US 222300 (940404) *US 280441 (940725)
PAGES: 67 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A;
C12P-019/34B; C12Q-001/34B DESIGNATED COUNTRIES: AU; CA; JP; SG
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC;
NL; PT; SE
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: DNA sequence detn stepwise ligation cleavage, restriction
endonuclease DNA sequence detn, ligase DNA sequence detn
DESCRIPTORS:
Nucleotides, triphosphates, analysis...
chain-terminating; DNA sequencing by repeated cycles of probe ligation
with target DNA terminus and cleavage of probe with nuclease
Deoxyribonucleic acid sequence determination... Dyes, fluorescent...
Functional groups, phosphoryl... Polymerase chain reaction...
DNA sequencing by repeated cycles of probe ligation with target DNA

terminus and cleavage of probe with nuclease
Immobilization, biochem...
of target DNA on solid-phase support; DNA sequencing by repeated cycles
of probe ligation with target DNA terminus and cleavage of probe with
nuclease
Nucleotides, oligo-, deoxyribo-, uses...
primers; DNA sequencing by repeated cycles of probe ligation with
target DNA terminus and cleavage of probe with nuclease
CAS REGISTRY NUMBERS:
9012-90-2 9015-85-4 9026-81-7 9037-42-7 81458-03-9 116155-80-7 DNA
sequencing by repeated cycles of probe ligation with target DNA
terminus and cleavage of probe with nuclease
9075-08-5 type II; DNA sequencing by repeated cycles of probe ligation
with target DNA terminus and cleavage of probe with nuclease

7/7/61 (Item 61 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

123286659 CA: 123(21)286659b JOURNAL
Liquid-phase combinatorial synthesis
AUTHOR(S): Han, Hyunsoo; Wolfe, Mary M.; Brenner, Sydney; Janda, Kim D.
LOCATION: Dep. Mol. Biol. Chem., Scripps Res. Inst., La Jolla, CA, 92037,
USA
JOURNAL: Proc. Natl. Acad. Sci. U. S. A. DATE: 1995 VOLUME: 92
NUMBER: 14 PAGES: 6419-23 CODEN: PNASA6 ISSN: 0027-8424 LANGUAGE:
English
SECTION:
CA234003 Amino Acids, Peptides, and Proteins
CA215XXX Immunochemistry
CA225XXX Benzene, Its Derivatives, and Condensed Benzenoid Compounds
IDENTIFIERS: liq phase combinatorial synthesis peptide, arylsulfonamide
liq phase combinatorial synthesis, Merrifield synthesis polyethylene glycol
support
DESCRIPTORS:
Combinatorial library... Merrifield synthesis...
liq.-phase combinatorial synthesis of peptides and arylsulfonamides
Peptides, preparation...
mixts.; liq.-phase combinatorial synthesis of peptides and
aryl-sulfonamides
CAS REGISTRY NUMBERS:
63-74-1DP 169692-88-0DP alkylsulfonamide derivs., liq.-phase
combinatorial synthesis of peptides and arylsulfonamides
169692-86-8DP disulfide conjugate with bovine serum albumin, liq.-phase
combinatorial synthesis of peptides and arylsulfonamides
4530-20-5 6752-38-1 9004-74-4 13139-15-6 13734-34-4 47689-67-8
71921-24-9P 169692-76-6P 169692-77-7P 169692-78-8P 169692-79-9P
169692-80-2P 169692-81-3P 169692-82-4P 169692-84-6P 169692-87-9P
169692-88-0P 169692-89-1P 169692-90-4P 169692-91-5P 169692-92-6P
169692-93-7P liq.-phase combinatorial synthesis of peptides and
aryl-sulfonamides
56-40-6DP 60-18-4DP 61-90-5DP 63-91-2DP 673-08-5DP 1050-28-8DP
17355-10-1DP 17355-11-2DP 21778-69-8DP 21778-72-3DP 21800-57-7DP
21841-54-3DP 60254-82-2DP 80638-46-6DP 111790-77-3DP 169692-75-5DP
pentapeptide polyethylene glycol monomethyl ether esters contg.
C-terminal, liq.-phase combinatorial synthesis of peptides and
aryl-sulfonamides

7/7/64 (Item 64 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

123218371 CA: 123(17)218371b PATENT

Combinatorial library and methods for their use in drug discovery

INVENTOR(AUTHOR): Brenner, Sydney

LOCATION: USA

ASSIGNEE: Combichem, Inc.

PATENT: PCT International ; WO 9516918 A1 DATE: 950622

APPLICATION: WO 94US8542 (940726) *US 168966 (931215)

PAGES: 26 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: G01N-033/68A;

C07K-001/04B DESIGNATED COUNTRIES: AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ;
DE; DK; ES; FI; GB; GE; HU; JP; KG; KP; KR; KZ; LK; LU; LV; MD; MG; MN; MW;
NL; NO; NZ; PL; PT; RO; RU; SD; SE; SI; SK; TJ; TT; UA; UZ; VN

DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC;
NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

SECTION:

CA201001 Pharmacology

IDENTIFIERS: combinatorial library peptide drug

DESCRIPTORS:

Combinatorial library... Peptides, biological studies... Pharmaceuticals...
generation of combinatorial libraries for use in drug discovery
Merrifield synthesis...

1 generation of combinatorial libraries for use in drug discovery

CAS REGISTRY NUMBERS:

60617-12-1DP analogs, generation of combinatorial libraries for use in
drug discovery

80479-94-3P 168094-51-7P 168094-52-8P generation of combinatorial
libraries for use in drug discovery

7/7/69 (Item 69 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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122257223 CA: 122(21)257223d JOURNAL

One armed PCR (OA-PCR): amplification of genomic DNA from a single primer
domain

AUTHOR(S): Macrae, Alexander D.; Brenner, Sydney

LOCATION: Molecular Genetics Unit, Univ. Cambridge, Cambridge, UK, CB2

2QQ

JOURNAL: Genomics DATE: 1994 VOLUME: 24 NUMBER: 1 PAGES: 176-8

CODEN: GNMCEP ISSN: 0888-7543 LANGUAGE: English

SECTION:

CA203001 Biochemical Genetics

CA209XXX Biochemical Methods

IDENTIFIERS: one armed PCR genomic DNA amplification, fugu model genomic
library PCR method

DESCRIPTORS:

Fugu...

genomic library from, as model; one armed PCR amplification of genomic
DNA from a single primer domain

Deoxyribonucleic acids...

genomic; one armed PCR amplification of genomic DNA from a single
primer domain

Genetic vectors, phagemid...

.lambda.MGU2; one armed PCR amplification of genomic DNA from a single
primer domain

Recombination, genetic, amplification...

one armed PCR amplification of genomic DNA from a single primer domain

Polymerase chain reaction...

one-armed; one armed PCR amplification of genomic DNA from a single
primer domain

Deoxyribonucleic acids...

primers; one armed PCR amplification of genomic DNA from a single
primer domain

7/7/70 (Item 70 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)
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122047744 CA: 122(5)47744y JOURNAL
Recursive deconvolution of combinatorial chemical libraries
AUTHOR(S): Erb, Eric; Janda, Kim D.; Brenner, Sydney
LOCATION: Departments of Molecular Biology and Chemistry, The Scripps
Research Inst., La Jolla, CA, 92037, USA
JOURNAL: Proc. Natl. Acad. Sci. U. S. A. DATE: 1994 VOLUME: 91
NUMBER: 24 PAGES: 11422-6 CODEN: PNASA6 ISSN: 0027-8424 LANGUAGE:
English
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: chem combinatorial library recursive deconvolution method
DESCRIPTORS:
Combinatorial library...
pentapeptide library; recursive deconvolution of combinatorial chem.
libraries

7/7/74 (Item 74 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2000 American Chemical Society. All rts. reserv.

120107617 CA: 120(9)107617e JOURNAL
Synthetic methods for the implementation of encoded combinatorial
chemistry
AUTHOR(S): Nielsen, John; Brenner, Sydney; Janda, Kim D.
LOCATION: Dep. Mol. Biol., Scripps Res. Inst., La Jolla, CA, 92037, USA
JOURNAL: J. Am. Chem. Soc. DATE: 1993 VOLUME: 115 NUMBER: 21 PAGES:
9812-13 CODEN: JACSAT ISSN: 0002-7863 LANGUAGE: English
SECTION:
CA233010 Carbohydrates
CA215XXX Immunochemistry
CA234XXX Amino Acids, Peptides, and Proteins
IDENTIFIERS: DNA encoded peptide, oligodeoxynucleotide encoded peptide,
nucleotide oligodeoxyribo encoded peptide
DESCRIPTORS:
Combinatorial library...
peptide, encoding and other technological improvements of
Deoxyribonucleic acids... Nucleotides, oligo-, deoxyribo-, polymers...
peptide-tagged, prepn. of
CAS REGISTRY NUMBERS:
151990-19-1DP 151990-20-4DP 151990-21-5DP 152513-92-3DP polymer
supported, prepn. and reaction of, in synthesis of DNA
151901-82-5P 151901-83-6P prepn. and reaction of, in synthesis of DNA
152788-03-9P 152788-04-0P 152926-91-5P 152926-92-6P 152926-93-7P
152926-94-8P prepn. of
4048-33-3 28920-43-6 73724-45-5 77128-70-2 78081-87-5 88574-06-5
128625-52-5 139338-72-0 reaction of, in synthesis of DNA

7/7/75 (Item 75 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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120027026 CA: 120(3)27026w PATENT
Encoded combinatorial chemical libraries
INVENTOR(AUTHOR): Lerner, Richard; Janda, Kim; Brenner, Sydney; Nielsen,
John
LOCATION: USA
ASSIGNEE: Scripps Research Institute
PATENT: PCT International ; WO 9320242 A1 DATE: 931014
APPLICATION: WO 93US3127 (930330) *US 860445 (920330)
PAGES: 96 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/70A;

C07K-005/00B; C07K-013/00B; G01N-033/53B DESIGNATED COUNTRIES: AU; CA; JP;
US DESIGNATED REGIONAL PAT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC
; NL; PT; SE

SECTION:

CA209014 Biochemical Methods

CA203XXX Biochemical Genetics

CA233XXX Carbohydrates

CA234XXX Amino Acids, Peptides, and Proteins

IDENTIFIERS: oligonucleotide peptide bifunctional library, screening
bioactive agent combinatorial library

DESCRIPTORS:

Magnetic substances...

beads, biol. ligand immobilized on, in receptor-oligonucleotide
conjugate screening and identification

Nucleopeptides...

bifunctional, in combinatorial chem. library for screening and
identification of biol. active biopolymers

Glycolipids...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active glycolipids

Glycopeptides...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active glycopeptides

Lipids, properties...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active lipids

Oligosaccharides...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active
oligosaccharides

Polymers, properties...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active polymers

Proteins, uses...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active proteins

Proteoglycans, properties...

bifunctional mol. contg. oligonucleotide and, in combinatorial chem.
library for screening and identification of biol. active proteoglycans

Nucleotides, complexes, compounds...

bifunctional mol. contg. other biopolymer and, in combinatorial chem.
library for screening and identification of biol. active biopolymers

Glass, oxide...

controlled-pore, bifunctional conjugate of oligonucleotide with biol.
active peptide prepn. on

Photolysis, UV...

of bifunctional linking agent, in biol. active polymer-oligonucleotide
conjugate screening and identification

Immobilization, biochemical...

of ligand, in receptor-oligonucleotide conjugate screening and
identification

Polymerase chain reaction...

oligonucleotide amplification by, in receptor-oligonucleotide conjugate
screening for receptor identification

Receptors, conjugates...

oligonucleotide, screening and identification of

Combinatorial library...

peptide, with identifying synthetic genetic tag for PCR amplification

Amino acids, protected, compounds...

reaction of, with immobilized oligonucleotide conjugate in prepn. of
bifunctional conjugate of oligonucleotide with biol. active peptide

Nucleotides, 3'-phosphoramidites, reactions...

reaction of, with support-bound bifunctional linker in
oligonucleotide-peptide conjugate prepn.

Proteins, specific or class, A, conjugates...

with biol. ligand, immobilization of, in receptor-oligonucleotide
conjugate screening and identification

CAS REGISTRY NUMBERS:

56-45-1D bifunctional linking agent contg., in biol. active
polymer-oligonucleotide conjugates
28920-43-6 condensation of, with aminohexanol
4048-33-3 condensation of, with fluorenylmethyl chloroformate
58-85-5D conjugates with biol. ligand, immobilization of, in
receptor-oligonucleotide conjugate screening and identification
151928-74-4DP conjugates with teflon, bifunctional conjugate of
oligonucleotide with biol. active peptide prepn. on
77128-70-2 immobilization of, on controlled pore glass
151901-83-6 immobilization of, on derivatized controlled-pore glass beads
for prepn. of bifunctional conjugate of oligonucleotide with biol.
active peptide
151901-84-7 151901-85-8 immobilized on controlled-pore glass beads, for
prepn. of bifunctional conjugate of oligonucleotide with biol. active
peptide
151901-86-9D oligonucleotide conjugates, controlled-pore
glass-immobilized, reaction of, with oligonucleotides in prepn. of
bifunctional conjugate
151822-71-8DP 151822-72-9DP polypeptide-CPG conjugates, prepn. of
151901-82-5P prepn. and reaction with protected serine deriv.
127903-20-2P prepn. and succinylation of
73724-45-5 reaction of, with dimethoxytrityl chloride
288-94-8 reaction of, with fluorenyl phosphoramidite deriv. and modified
Teflon resin
151822-71-8 151822-72-9 reaction of, with immobilized peptide conjugate
in prepn. of bifunctional conjugate of oligonucleotide with biol.
active peptide
55715-03-2 reaction of, with immobilized serine deriv. for prepn. of
bifunctional conjugate of oligonucleotide with biol. active peptide
151901-81-4 reaction of, with modified Teflon resin and tetrazole
40615-36-9 reaction of, with protected serine deriv.
9002-84-ODP resin contg., conjugates with modified adenine nucleoside,
bifunctional conjugate of oligonucleotide with biol. active peptide
prepn. on
7664-41-7 uses, bifunctional linking agent cleavage by, in biol. active
polymer-oligonucleotide conjugate screening and identification

7/7/76 (Item 76 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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120002245 CA: 120(1)2245d PATENT

Automated sequencing of large fragments of DNA using bases labelled with
cleavable reporter groups

INVENTOR(AUTHOR): Rosenthal, Andre; Brenner, Sydney

LOCATION: UK,

ASSIGNEE: Medical Research Council

PATENT: PCT International ; WO 9321340 A1 DATE: 931028

APPLICATION: WO 93GB848 (930422) *GB 928733 (920422)

PAGES: 74 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A

DESIGNATED COUNTRIES: AT; AU; BB; BG; BR; CA; CH; CZ; DE; DK; ES; FI; GB;
HU; JP; KP; KR; KZ; LK; LU; MG; MN; MW; NL; NO; NZ; PL; PT; RO; RU; SD; SE;
SK; UA; US; VN DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE
; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN;
TD; TG

SECTION:

CA203001 Biochemical Genetics

IDENTIFIERS: DNA sequencing sequential testing method

DESCRIPTORS:

Nucleosides, deoxyribo-, uses...

.alpha., .beta.-methylene triphosphates, as chain terminators in DNA

sequencing by sequential testing of incorporation of labeled bases in
primer extension
Nucleotides, deoxyribo-, uses... Nucleotides, diphosphates, uses...
as chain terminators in DNA sequencing by sequential testing of
incorporation of labeled bases in primer extension
Nucleotides, deoxyribo-, thiophosphates, uses...
as primer termini in DNA sequencing by sequential testing of
incorporation of labeled bases in primer extension
Deoxyribonucleic acid sequence determination...
by sequential testing of incorporation of labeled bases in primer
extension, method and app. for
Deoxyribonucleic acids, immobilized...
sequence detn. by sequential testing of incorporation of labeled bases
in primer extension of
CAS REGISTRY NUMBERS:
9037-44-9 37228-74-3 in DNA sequencing by sequential testing of
incorporation of labeled bases in primer extension, removal of
incorporated bases using

7/7/78 (Item 78 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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119132373 CA: 119(13)132373j JOURNAL
DNA fingerprinting by sampled sequencing
AUTHOR(S): McGuigan, Terri L.; Livak, Kenneth J.; Brenner, Sydney
LOCATION: DuPont Merck Pharm. Co., Wilmington, DE, 19880, USA
JOURNAL: Methods Enzymol. DATE: 1993 VOLUME: 218 NUMBER: Recombinant
DNA, Pt. I PAGES: 241-58 CODEN: MENZAU ISSN: 0076-6879 LANGUAGE:
English
SECTION:
CA203000 Biochemical Genetics
IDENTIFIERS: DNA fingerprinting sampled sequencing review
DESCRIPTORS:
Genetic methods, DNA fingerprinting...
by sampled sequencing

7/7/80 (Item 80 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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118206947 CA: 118(21)206947c PATENT
A polymerase chain reaction method for preparation of a cDNA population
with all cDNAs equally represented
INVENTOR(AUTHOR): Jones, David Stephen Charnock; Brenner, Sydney
LOCATION: UK,
ASSIGNEE: Medical Research Council
PATENT: PCT International ; WO 9302214 A1 DATE: 930204
APPLICATION: WO 92GB1303 (920716) *GB 9115407 (910717)
PAGES: 16 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A
DESIGNATED COUNTRIES: JP; US DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES
; FR; GB; GR; IT; LU; MC; NL; SE
SECTION:
CA203001 Biochemical Genetics
IDENTIFIERS: PCR rare transcript cDNA amplification
DESCRIPTORS:
Polymerase chain reaction...
C0t-PCR, for preferential amplification of rare cDNAs in a cDNA bank
Nucleic acid hybridization...
in amplification of rare cDNAs in cDNA banks by PCR
Deoxyribonucleic acids, complementary...
rare, in cDNA banks, PCR method for amplification of
CAS REGISTRY NUMBERS:

25086-81-1 as non-specific primer for amplification of rare cDNAs using
C0t-PCR
147307-42-4 147307-43-5 147307-44-6 147307-45-7 non-specific primer for
amplification of rare cDNAs using C0t-PCR

7/7/83 (Item 83 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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117043905 CA: 117(5)43905a JOURNAL
Encoded combinatorial chemistry
AUTHOR(S): Brenner, Sydney; Lerner, Richard A.
LOCATION: Dep. Chem., Scripps Res. Inst., La Jolla, CA, 92037, USA
JOURNAL: Proc. Natl. Acad. Sci. U. S. A. DATE: 1992 VOLUME: 89
NUMBER: 12 PAGES: 5381-3 CODEN: PNASA6 ISSN: 0027-8424 LANGUAGE:
English
SECTION:
CA209009 Biochemical Methods
CA203XXX Biochemical Genetics
IDENTIFIERS: chem screening PCR oligodeoxynucleotide method
DESCRIPTORS:
Receptors...
comps. binding to, screening of, with encoded combinatorial chem.
library
Genetic methods...
oligodeoxynucleotide tag, for screening of specific compd. from encoded
combinatorial chem. library
Polymerase chain reaction...
use of, in screening for specific compd. from encoded combinatorial
chem. library

7/7/87 (Item 87 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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115002518 CA: 115(1)2518s PATENT
Process for nucleic acid detection by binary amplification
INVENTOR(AUTHOR): Brenner, Sydney; Miller, Jeffrey Allan
LOCATION: USA
ASSIGNEE: du Pont de Nemours, E. I., and Co.
PATENT: PCT International ; WO 9011375 A1 DATE: 901004
APPLICATION: WO 90US1535 (900326) *US 328999 (890327)
PAGES: 14 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68;
C12P-019/34; C01N-033/52 DESIGNATED COUNTRIES: AU; JP; NO
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; IT; LU; NL; SE
SECTION:
CA203005 Biochemical Genetics
IDENTIFIERS: binary amplification nucleic acid detection, polymerase
chain reaction binary amplification
DESCRIPTORS:
Nucleic acids...
binary amplification for detection of
Deoxyribonucleic acid formation...
by polymerase chain reaction, in binary amplification method for
nucleic acid detection
Proteins, specific or class, gene cre (coliphage P1 recombinase)...
in binary amplification method for nucleic acid detection
Nucleotides, oligo-, polymers...
primers for binary amplification reaction for nucleic acid detection
CAS REGISTRY NUMBERS:
134375-69-2 oligonucleotide primer contg. LoxP sequence of, for binary
amplification for nucleic acid detection

7/7/94 (Item 94 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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112017336 CA: 112(3)17336t JOURNAL
DNA fingerprinting by sampled sequencing
AUTHOR(S): Brenner, Sydney; Livak, Kenneth J.
LOCATION: Mol. Genet. Unit, Med. Res. Counc., Cambridge, UK, CB2 2QH
JOURNAL: Proc. Natl. Acad. Sci. U. S. A. DATE: 1989 VOLUME: 86
NUMBER: 22 PAGES: 8902-6 CODEN: PNASA6 ISSN: 0027-8424 LANGUAGE:
English
SECTION:
CA203005 Biochemical Genetics
CA209XXX Biochemical Methods
IDENTIFIERS: DNA fingerprinting sampled sequence
DESCRIPTORS:
Deoxyribonucleic acid sequences...
detn. of, fluorescent fingerprinting method for
Deoxyribonucleic acids...
fingerprinting of, by sampled sequencing
Molecular structure determination...
of DNA, fluorescent fingerprinting method for

7/7/120 (Item 120 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
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81135159 CA: 81(21)135159b JOURNAL
New directions in molecular biology
AUTHOR(S): Brenner, Sydney
LOCATION: MRC Lab. Mol. Biol., Cambridge, Engl.
JOURNAL: Nature (London) DATE: 1974 VOLUME: 248 NUMBER: 5451 PAGES:
785-7 CODEN: NATUAS LANGUAGE: English
SECTION:
CA920000 History, Education, and Documentation
CA906XXX General Biochemistry
IDENTIFIERS: review philosophical mol biol
DESCRIPTORS:
Biochemistry...
mol., new directions in
? logoff

11apr00 16:54:46 User233835 Session D389.3
\$0.36 0.112 DialUnits File155
\$0.00 2 Type(s) in Format 6
\$0.40 2 Type(s) in Format 7
\$0.40 4 Types
\$0.76 Estimated cost File155
\$0.67 0.119 DialUnits File5
\$0.00 3 Type(s) in Format 6
\$1.65 1 Type(s) in Format 7
\$1.65 4 Types
\$2.32 Estimated cost File5
\$31.86 2.538 DialUnits File399
\$88.00 176 Type(s) in Format 6
\$109.20 42 Type(s) in Format 7
\$197.20 218 Types
\$229.06 Estimated cost File399
\$1.60 0.135 DialUnits File357
\$0.00 11 Type(s) in Format 6
\$24.20 11 Type(s) in Format 7
\$24.20 22 Types
\$25.80 Estimated cost File357

OneSearch, files, 2.905 DialUnits FileOS
\$1.20 TYMNET
\$259.14 Estimated cost this search
\$259.66 Estimated total session cost 3.108 DialUnits
Logoff: level 00.03.02 D 16:54:46